GE Fanuc Automation

CIMPLICITY® Monitoring and Control Products

CIMPLICITY HMI

WebView and Terminal Services

Operation Manual

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GFL-005

Following is a list of documentation icons:

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury exist in the equipment or may be associated with its use.

In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.

Caution provides information when careful attention must be taken in order to avoid damaging results.

Important flags important information.

To do calls attention to a procedure.

Note calls attention to information that is especially significant to understanding and operating the equipment.

Tip provides a suggestion.

Guide provides additional directions for selected topics.

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Preface

Contents of this Manual

Chapter 1. Introducing your CIMPLICITY HMI Web Access: Introduces you to the wide range of access levels for interacting with CIMPLICITY projects through the Internet.

Chapter 2. Using Your CIMPLICITY Web Interface: Describes the default CIMPLICITY HMI Plant Edition Web pages.

Chapter 3. Introducing WebView: Introduces WebView.

Chapter 4. Configuring WebView Screen Easy Steps: Lists the easy steps to automatically configure and monitor WebView screens through the CIMPLICITY Options dialog box.

Chapter 5. Configuring WebView Screens through CIMPLICITY Options: Describes how to automatically configure WebView screens through the CIMPLICITY Options dialog box.

Chapter 6. Configuring WebView Broadcast Sessions: Describes how to configure WebView screens for users to take advantage of the Broadcast license.

Chapter 7. Monitoring WebView Sessions: Describes how to monitor WebView sessions through the CIMPLICITY Options dialog box.

Chapter 8. Locating Files for CIMPLICITY Plant Edition Web Access: Describes the default location for all of the default Web access files.

Chapter 9. Viewing CimView through Web Browsers: Lists the differences in functionality when viewing CimView screens through a Web browser compared to a Viewer.

Chapter 10. Configuring Security for CIMPLICITY Web Access: Provides an overview of CIMPLICITY security options.

Chapter 11. Using Terminal Services: Describes how to use Terminal Services with CIMPLICITY Plant Edition .

Appendix A. Using a Firewall: Discusses using the firewall with CIMPLICITY.

Appendix B. Using WebView Log Files: Describes how to use detailed logs of user connections that CIMPLICITY keeps for security purposes and for determining server load information.

Appendix C. Doing Advanced WebView Configuration: Lists Java applets and describes Registry settings for WebView.

Appendix D. Troubleshooting WebView and Web Servers: Lists potential problems and their solutions.

Related Publications

For more information, refer to these publications:

CIMPLICITY HMI Plant Edition User's Manual (GFK-1180)

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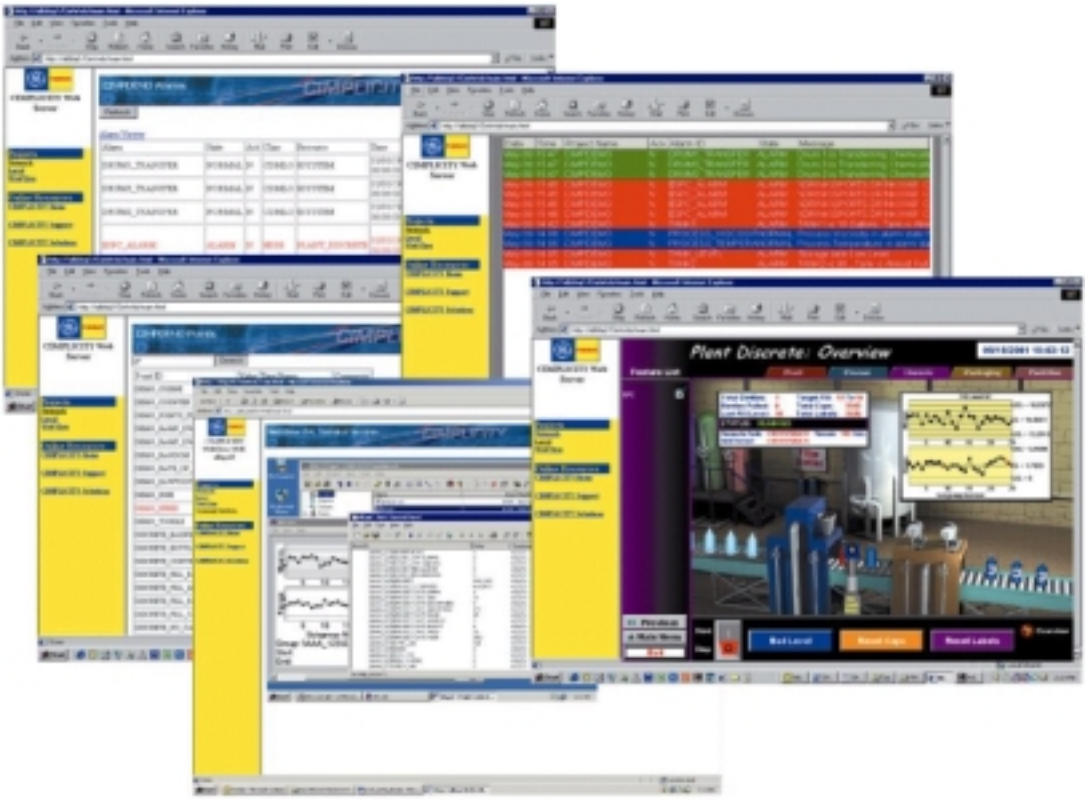
Introducing your CIMPLICITY HMI Web Access

Welcome to your CIMPLICITY Plant Edition Web Access

CIMPLICITY HMI Plant Edition enables you to provide users with a wide range of access levels for interacting with CIMPLICITY projects through the Internet.

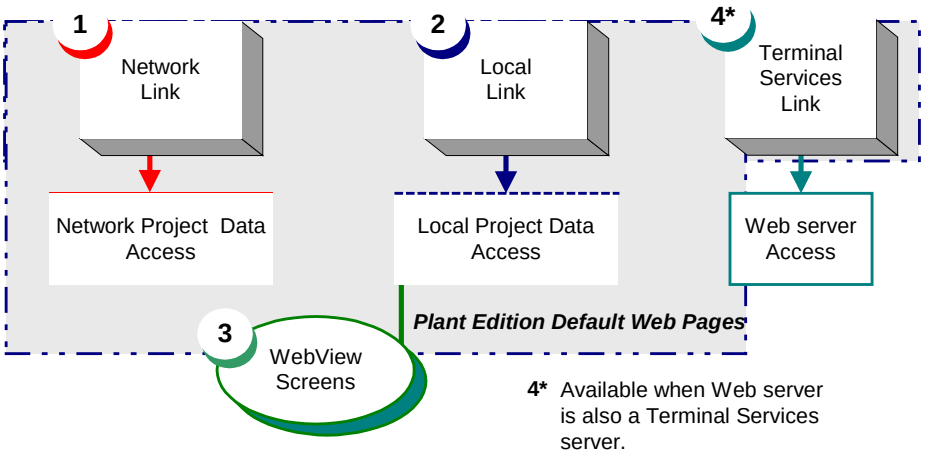
A CIMPLICITY Plant Edition Web browser interface organizes and centralizes the way you access your CIMPLICITY information via the Web.



The CIMPLICITY Plant Edition Web Browser interface provides access to the following.

Access Level		Access Description	Also Accessed through
1	Network project data	Enables a user to view read-only data from all of the projects that are being broadcast to the Web server.	
2	Local project data	Gives a user access to the projects that are running on the WebView server only. However, a user has a wide range of options, from read-only data to interactive capability through WebView screens, when one of these projects is selected.	
3	WebView screens	▪ Gives a user interactive access to a selected screen. ▪ Enables several users to view a read-only screen at the same time, using one license.	An explicit URL address.
4	Terminal Services	Enables a user to interact with the WebView /Terminal Services server or Terminal Services server according to his or her authorization level. Interaction can be from Workbench only to total access to the Terminal Services server.	▪ An explicit URL address to the Terminal Services server through the Web or ▪ The server name for a direct connection.

Your CIMPLICITY HMI Plant Edition Web Access Options



CIMPLICITY HMI Plant Edition includes a Web server that enables you to immediately turn your CIMPLICITY HMI server into a Web server. You can also use the Web browser interface with other Web servers.

CIMPLICITY Web Portal Hardware and Software Requirements

Server Requirements for the CIMPLICITY Web Interface

The computer you use as the CIMPLICITY Web server must meet the minimum requirements specified for a CIMPLICITY HMI server.

CIMPLICITY HMI must be version 5.5 or higher.

To use Terminal Services through the CIMPLICITY Web portal, the server on which the project is running must be a Terminal Services server.

Client Requirements for the CIMPLICITY Web Interface

In order to access the Web site on a client you need to have the following running on Windows NT, Windows 98 or Windows 2000.

CIMPLICITY Plant Edition Web interface

- Microsoft Internet Explorer 5.0, or higher

Stand-alone WebView screens only

- Microsoft Internet Explorer 4.0, or higher
- Netscape Navigator/Communicator 4.06, or higher.

CIMPLICITY Web Screens Licenses and Sessions

Your CIMPLICITY Plant Edition Web pages are installed by default when you install CIMPLICITY HMI version 5.5 or over. Any user can view read-only point and alarm data for a selected project through the Web Browser interface.

See the "Using your CIMPLICITY Web Access" chapter in this manual for details about each of the pages displayed here.

Licenses are required to:

1. View CIMPLICITY WebView screens on a CIMPLICITY WebView only server (not a Terminal Services server).

   CIMPLICITY WebView screens are:

   - Screens accessed through the default Web pages.
   - WebView stand-alone screens.

   See the "Introducing WebView" chapter in this manual for details about WebView licenses.

2. Access Terminal Services.

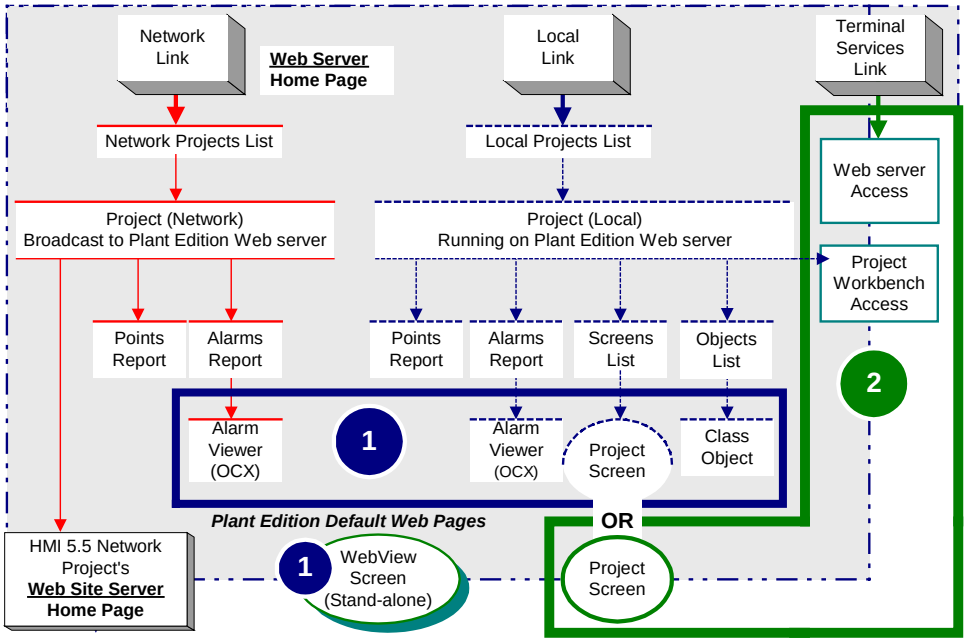
   Some access levels (with correct authorization) include:

   - CIMPLICITY WebView screens accessed through the default Web pages.
   - Access to the Workbench only.
   - Access to the Terminal Services server.

   If the Web server is a Terminal Services server, access to screens or any other Terminal Services features are counted as Terminal Services licenses.

   See the "Using Terminal Services" chapter in this manual for details.

Default Map of Your CIMPLICITY HMI Plant Edition Web Access



1 WebView licenses required to view CIMPLICITY screens.
Project screens use a WebView license on a WebView server.

2 CIMPLICITY Terminal Services licenses are required to use Terminal Services with CIMPLICITY projects.
Project screens use a Terminal Services license on a Terminal Services server.

CIMPLICITY Web Pages/WebView Installation

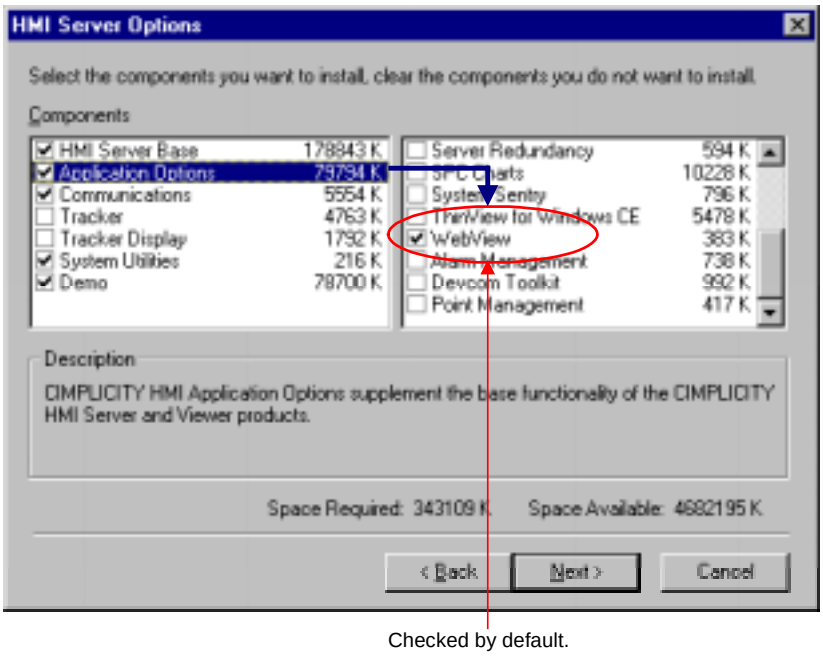
When you install CIMPLICITY the server option appears in the Application Options list for ether the HMI server or Development Viewer.

The WebView option is checked by default. This option includes the:

- Web server, which is configured to start at boot time.
- CIMPLICITY Plant Edition Browser interface pages and
- WebView.

See the "Getting Started Guide," GFK-1500, for details about installing CIMPLICITY HMI software.

See the "Using Terminal Services" chapter in this manual for details about installing Terminal Services.


HMI Server Options
Select the components you want to install, clear the components you do not want to install.
Components
HMI Server Base 178843 K
Application Options 79794 K
Communications 5554 K
Tracker 4763 K
Tracker Display 1792 K
System Utilities 216 K
Demo 78700 K
Server Redundancy 594 K
10228 K
796 K
5478 K
WebView 383 K
738 K
Devcom Toolkit 992 K
Point Management 417 K
Description
CIMPLICITY HMI Application Options supplement the base functionality of the CIMPLICITY HMI Server and Viewer products.
Space Required: 343109 K
Space Available: 4682195 K
< Back
Next >
Cancel
Checked by default.

Once you install WebView and/or Terminal Services you need to buy licenses for and register either the WebView or Terminal Services options to access more than read-only data.

Each CIMPLICITY HMI Plant Edition version 5.5 server comes with one WebView license.

CIMPLICITY Web Server Startup and Use

During installation, CIMPLICITY configures the CIMPLICITY Web server to automatically start at boot, if no other Web server is running on the computer during post setup. If another Web server is running at that time, CIMPLICITY does not configure the CIMPLICITY Web server to start at boot.

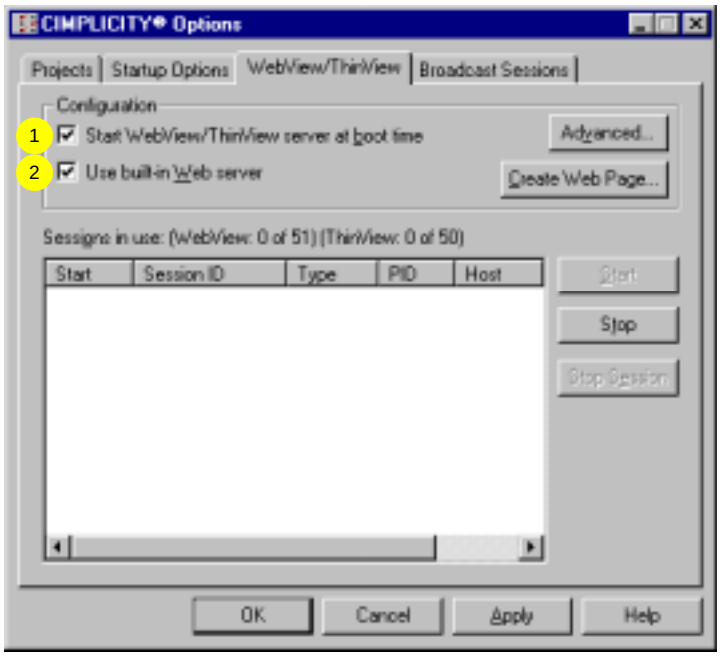
Changing the CIMPLICITY Web Server Start up Specification

To change the CIMPLICITY Web server startup and selection:

1. Click Start on the Windows task bar.
2. Select **`Programs\CIMPLICITY\HMI\CIMPLICITY Options`**.

   The CIMPLICITY® Options dialog box opens.
3. Select the WebView (WebView/ThinView) tab.
4. Do one of the following to the Start WebView/ThinView server at boot time checkbox.
   - (*Default*) Check to start the server at boot time.
   - Uncheck to require manual start up.
5. Do one of the following to the Use built-in Web server check box.
   - (*Default*) Check to use the Web server that is shipped with CIMPLICITY.
   - Uncheck to use another Web server.

   Note: The CIMPLICITY Web browser interface runs with most Web servers and is supported under Microsoft IIS. Therefore, if your system already uses another Web server that you want to continue using, most likely, you can.



Defaults if no other Web server is running when WebView , the CIMPLICITY Web server is installed:

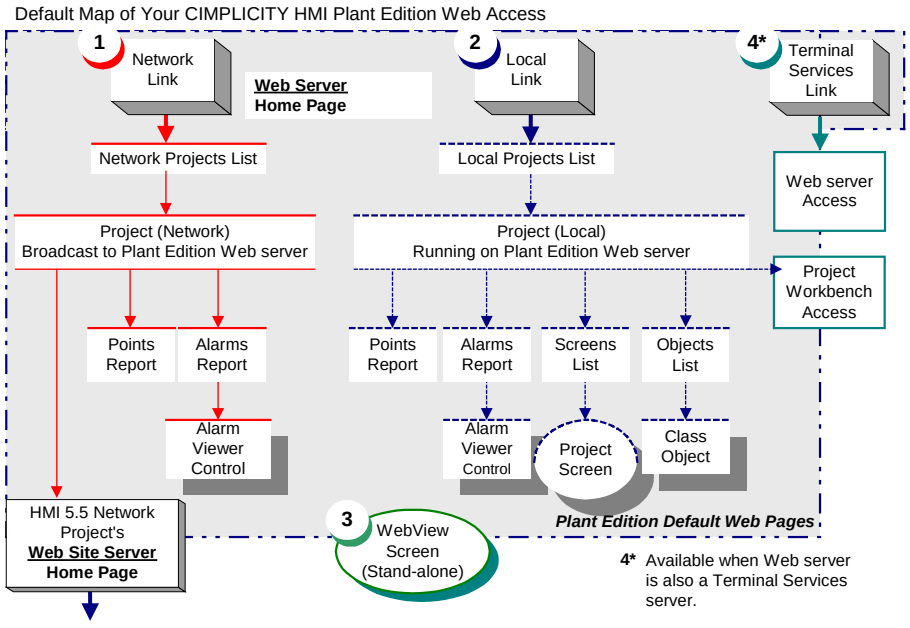
1. Checked-Starts the Web server at boot time.
2. Checked--Uses the Web server that is shipped with CIMPLICITY.

Using Your CIMPLICITY Web Interface

Overview of CIMPLICITY Plant Edition Web Interface

Your default CIMPLICITY HMI Plant Edition Web pages offer a wide range of user accessibility and levels of interaction with CIMPLICITY network or local projects.

The following map provides a detailed view of the paths a user can take to access a CIMPLICITY project and/or screen through the Web interface.



The map displays access to the following through the Web browser interface:

1. Data for Network projects broadcast to the Web server.
2. Data for local projects running on the Web server.
3. WebView screens, including pre-designated read-only (Broadcast) screens.

   These screens can be accessed as stand-alone screens.
4. Terminal Services, when the server is a Terminal Services server.

   A user can access a Terminal Services server independent of the Browser interface. *See the "Using Terminal Services" chapter in this manual for details.*

Opening the CIMPLICITY Plant Edition Default Home Page

As soon as you have a project running and licenses for viewing CIMPLICITY screens through the Web, an authorized user can view and/or work with the project data through a Web browser. Opening the CIMPLICITY Web Portal default Home page is straightforward.

To open the CIMPLICITY Plant Edition default home page

1. Open an appropriate Web browser.

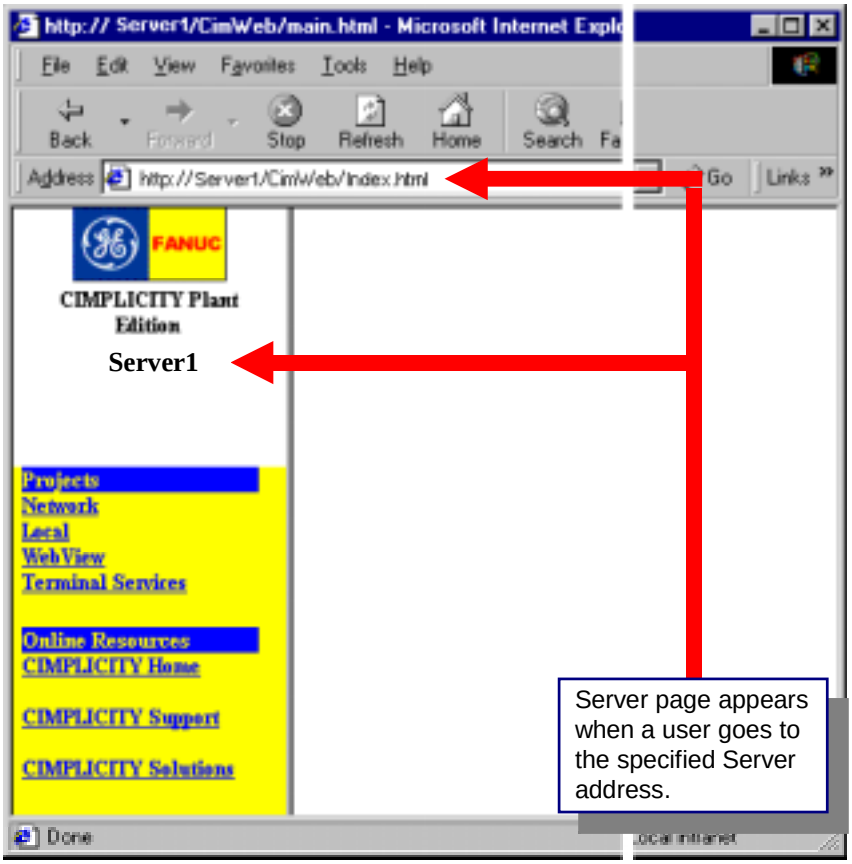
   See "Hardware and Software Requirements" in this chapter for requirements.

2. Enter the server location as specified by the system administrator.

   Example

   `http://servername`

   The default CIMPLICITY Web Plant Edition home page displays if a page is not explicitly specified.



Note: CIMPLICITY software includes one WebView license.

1. View Network Project Data through the Web

Through the CIMPLICITY Plant Edition Web pages, an authorized user can view read-only point and alarm data for any project that is broadcast to the Web server.

The ***local CIMPLICITY HMI Plant Edition Web server*** is the server the user displays through the Web browser interface. It is not the computer that the user is physically working, nor the server on which the project is running.

A selected project can be a CIMPLICITY project that is an earlier version than CIMPLICITY Plant Edition version 5.5 or a Machine Edition project, in addition to a CIMPLICITY version 5.5 or over project.

When a user selects the network access, the CIMPLICITY Plant Edition provides the following default Web pages:

1 CIMPLICITY Plant Edition Home page.

1A CIMPLICITY Network Projects page.

1B (Network) Project page.

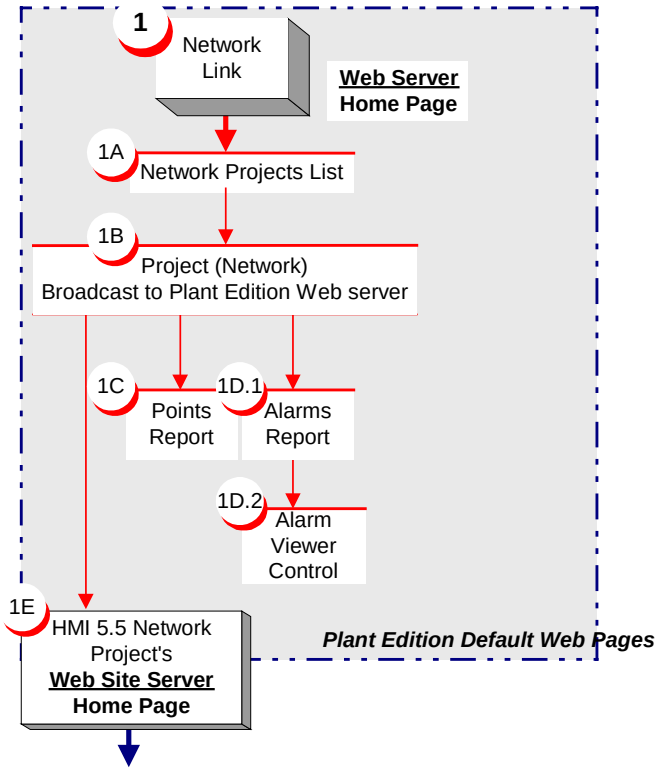
1C (Network project) Point page

1D.1 (Network project) Alarms page

1D.2 (Network project) Alarm Viewer OCX (AMV OCX) page

1E To selected project's WebServer.

Default Map of Your CIMPLICITY HMI Plant Edition Web Access

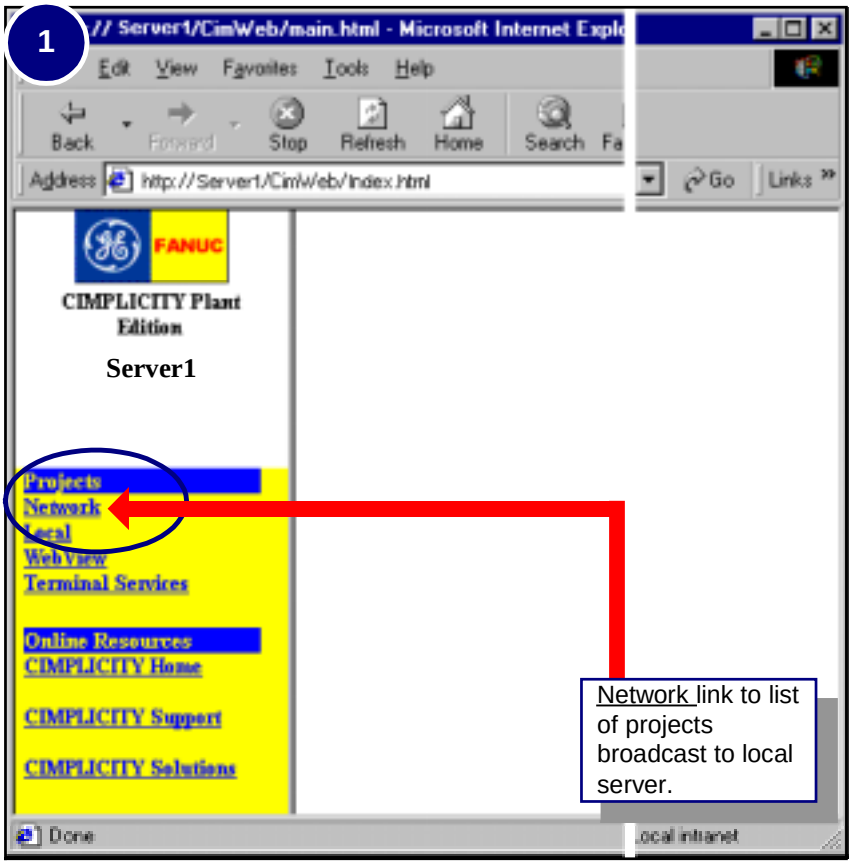


Tip: The local server name displays in the Web browser left frame and the browser Address field.

1. CIMPLICITY Plant Edition Web Server Home Page

The Web server Home page displays when a user enters an explicit server URL in the Internet browser Address field.

The CIMPLICITY Plant Edition default Web pages provide a Network link in the left frame to a list of projects broadcast to the local WebView server.

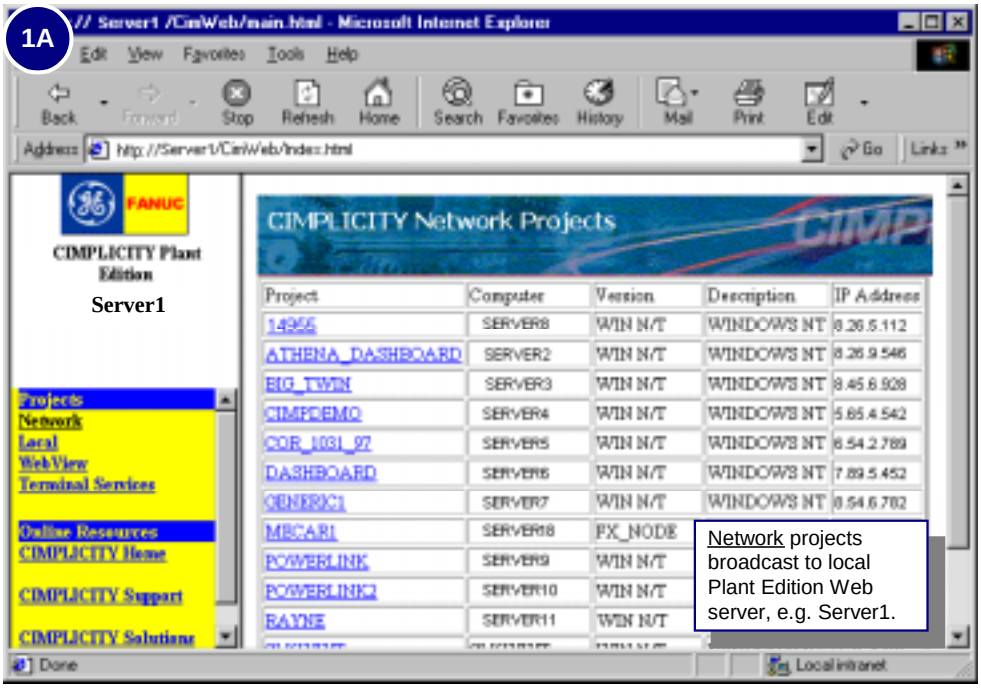


1A. CIMPLICITY Network Projects Page

The CIMPLICITY Network Projects page displays a list of the CIMPLICITY projects that are broadcast to the Web server.

Clicking one of the project links opens the Project page for the selected project.

In addition to CIMPLICITY HMI version 5.5, projects, this list can include CIMPLICITY HMI 5.0 and earlier and CIMPLICITY Machine Edition projects.


1A
// Server1 /CimWeb/main.html - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Mail Print Edit
Address http://Server1/CimWeb/Index.html
Go Links
FANUC
CIMPLICITY Plant Edition
Server1
Projects
Network
Local
WebView
Terminal Services
Online Resources
CIMPLICITY Home
CIMPLICITY Support
CIMPLICITY Solutions
CIMPLICITY Network Projects
Project Computer Version Description IP Address
14955 SERVER8 WIN NT WINDOWS NT 8.26.5.112
ATHENA_DASHBOARD SERVER2 WIN NT WINDOWS NT 8.26.9.546
BIG_TWIN SERVER3 WIN NT WINDOWS NT 8.45.6.928
CIMPDEMO SERVER4 WIN NT WINDOWS NT 5.65.4.542
COR_1031_97 SERVER5 WIN NT WINDOWS NT 6.54.2.789
DASHBOARD SERVER6 WIN NT WINDOWS NT 7.89.5.452
GENERIC1 SERVER7 WIN NT WINDOWS NT 8.54.6.782
MRCARI SERVER8 FX_NODE
POWERLINK SERVER9 WIN NT
POWERLINK2 SERVER10 WIN NT
RAYNE SERVER11 WIN NT
Network projects broadcast to local Plant Edition Web server, e.g. Server1.
Done
Local intranet

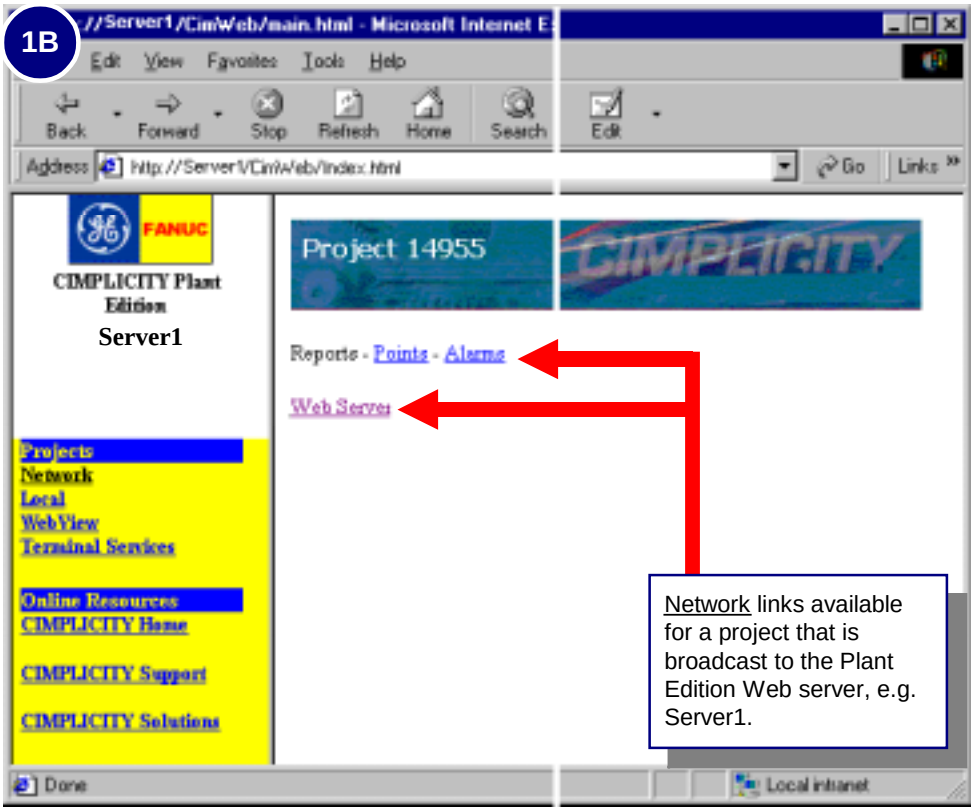
Note: The local server to which you are connected is the Web server you first accessed. The link does not jump to the server on which the project is running.

1B. Project Page (for Network Project)

The (network) Project page displays links to the selected project's data.

Links go to:

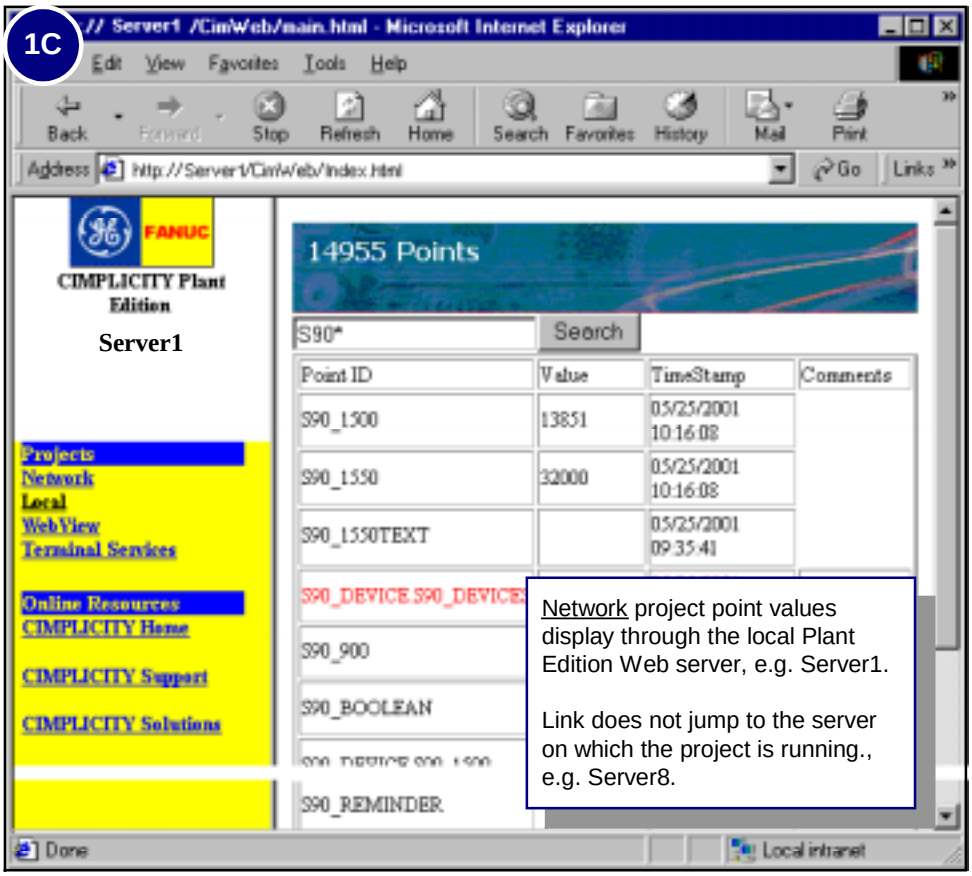
- Points
- Alarms
- WebServer



1C. Points Page (for Network Project)

The (network) Points page displays through the local Web server interface when a user clicks Points on the Project page for a network project; the link does not jump to the server on which the selected project is running.

The display is, in essence, a snapshot of the values. When a user refreshes the browser screen, the values are updated.



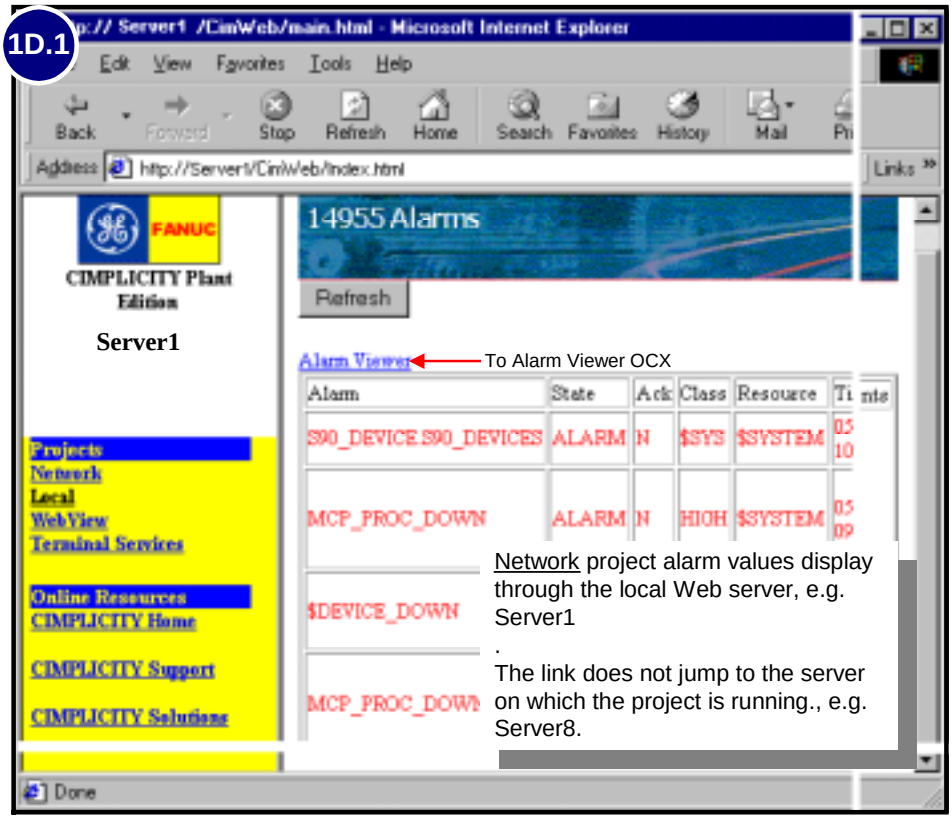
The Points page:

1. Displays the following point data for the selected project.
   - Point ID,
   - Value,
   - TimeStamp and
   - Comments.
2. Provides a Search field in which users can enter criteria for which Point ID's should display.

   Accepted wildcard search values include *?

1D.1 Alarms Page (for Network Project)

The (network) Alarms page displays when a user clicks the Alarms link on a Network project page. The Alarms page for the network project displays through the local server; a user does not jump to the server on which the selected project is running.



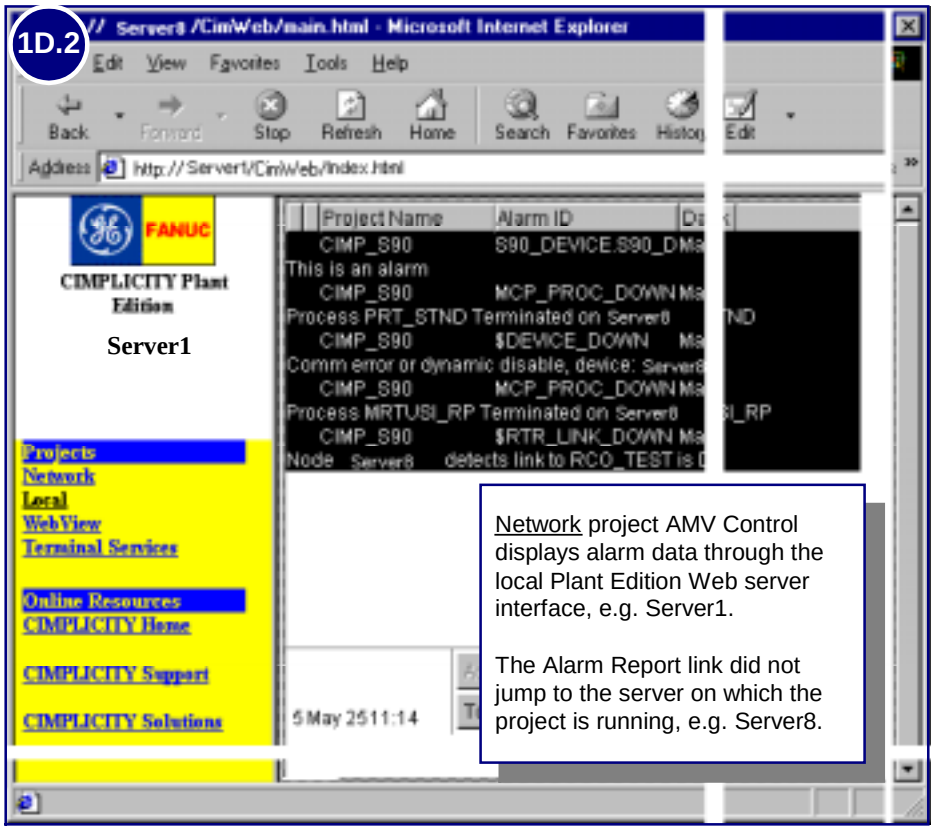
The Alarms page:

1. Displays the following alarm data for the selected project:
   - Alarm ID,
   - Alarm state,
   - If the alarm is acknowledged,
   - Resource,
   - Time alarm was generated,
   - Alarm messages and
   - Alarm comments.
2. Provides a link to a configured Alarm Viewer Control page.

1D.2 Alarm Viewer Control Page (for Network Project)

The Alarm Viewer Control page is a WebView screen that is simply a CimView screen with an embedded AMV Control.

The Alarm Viewer Control page requires a WebView license.



An authorized user can perform the following functions through the Plant Edition Alarm Viewer page.

- Acknowledge alarms,
- Reset alarms and
- Delete alarms.

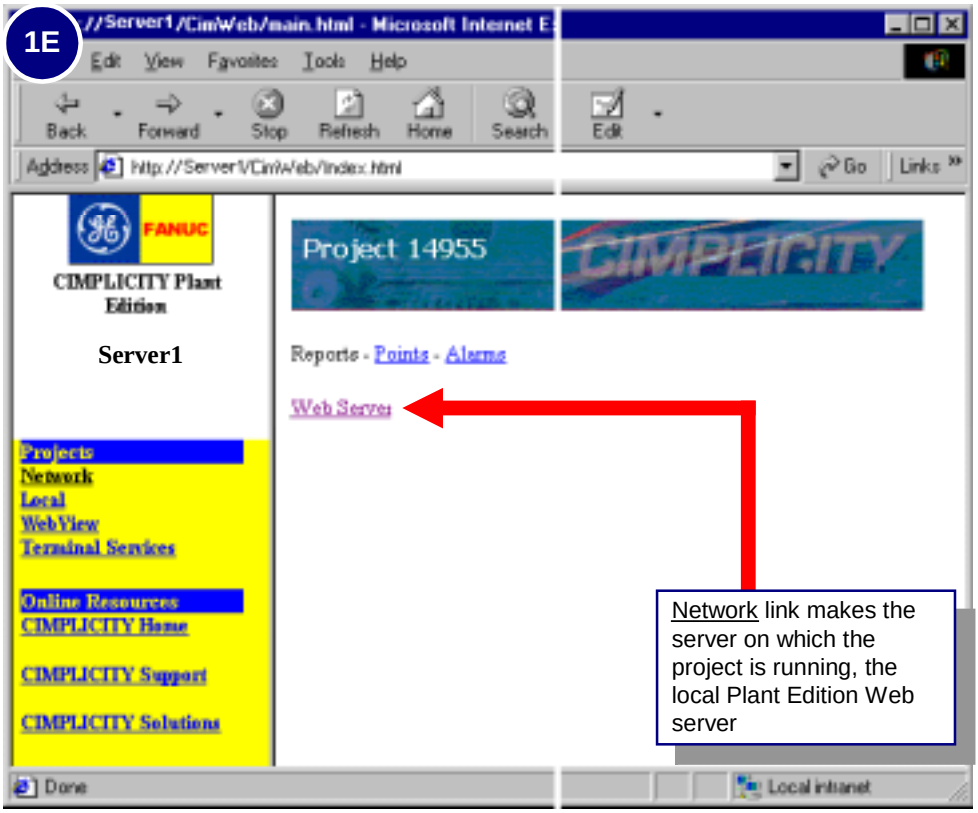
The Comments and View Stack dialog boxes cannot currently be opened through the web browser.

See the "Viewing CimView through Web Browsers" chapter in this manual for details about web browser limitations.

1E. Network Project's Web Server Link

The (network) Project page provides a link, WebServer, that jumps to the Web server on which the selected project is running.

When a user clicks the Web server link, the project's server becomes the new local CIMPLICITY Plant Edition Web server.



Note: If the CIMPLICITY Plant Edition Browser interface is not installed on the selected computer, an error message, "Page cannot be displayed…" displays.

2. View Local Project Data through the Web

The CIMPLICITY Plant Edition Web pages enable an authorized user to view point and alarm data for projects that are running on the local Web server and to interact with the project's screens. WebView displays these screens through the CIMPLICITY Plant Edition Browser interface.

The CIMPLICITY Plant Edition default Web pages enable an authorized user to view points, alarms, CimView screens and WebView screens for project that are running on the local CIMPLICITY Plant Edition Web server.

The Local link displays options on the local WebView server. This is the server that a user is connected to through the Web browser.

Tip: The local server name displays in the Web browser left frame and the browser Address field.

When a user selects the local access, the CIMPLICITY Plant Edition provides the following default Web pages:

2 CIMPLICITY WebView server Home.

2A CIMPLICITY Local Projects.

2B (Local) Project

2C (Local project) Points

2D.1 (Local project) Alarms

2D.2 (Local project) AMV OCX

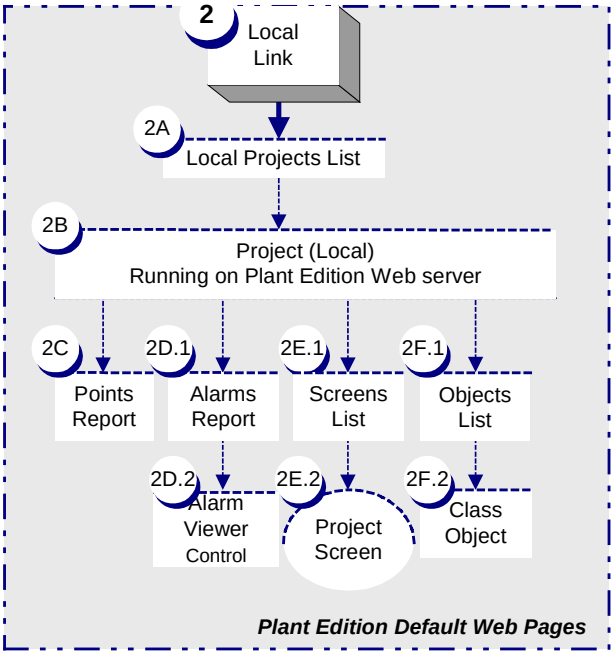
2E.1 CimView Screen List

2E.2 CimView Screen

2F.1 WebView Screen List

2F.2 WebView Screen

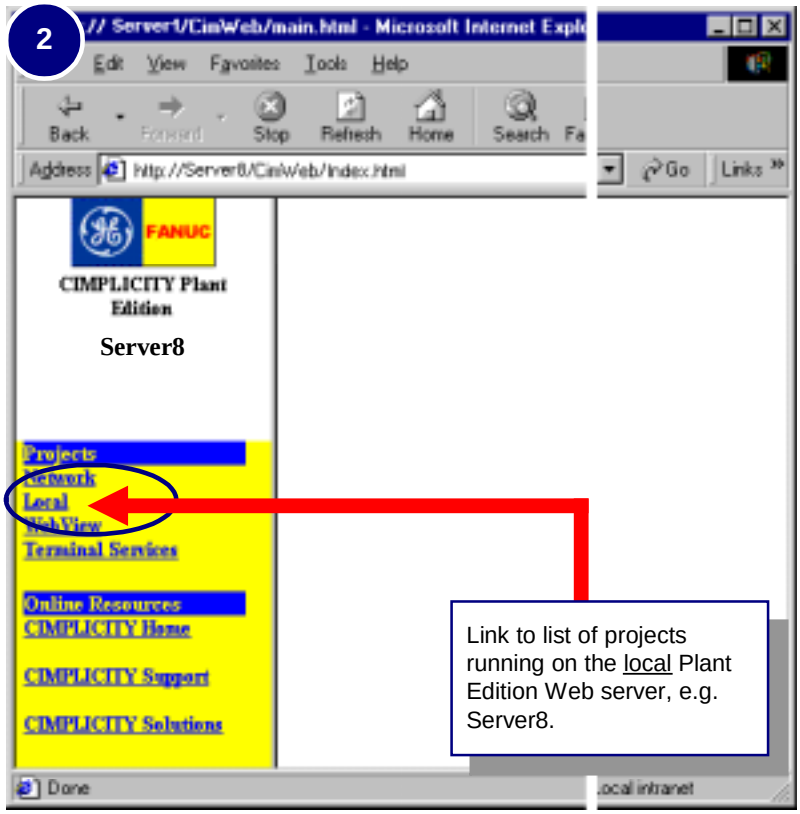
Map of Default CIMPLICITY Plant Edition Project Local Pages



2. CIMPLICITY Plant Edition Server Home Page

The CIMPLICITY Plant Edition Home page displays when a user enters the server address in the Internet browser Address field.

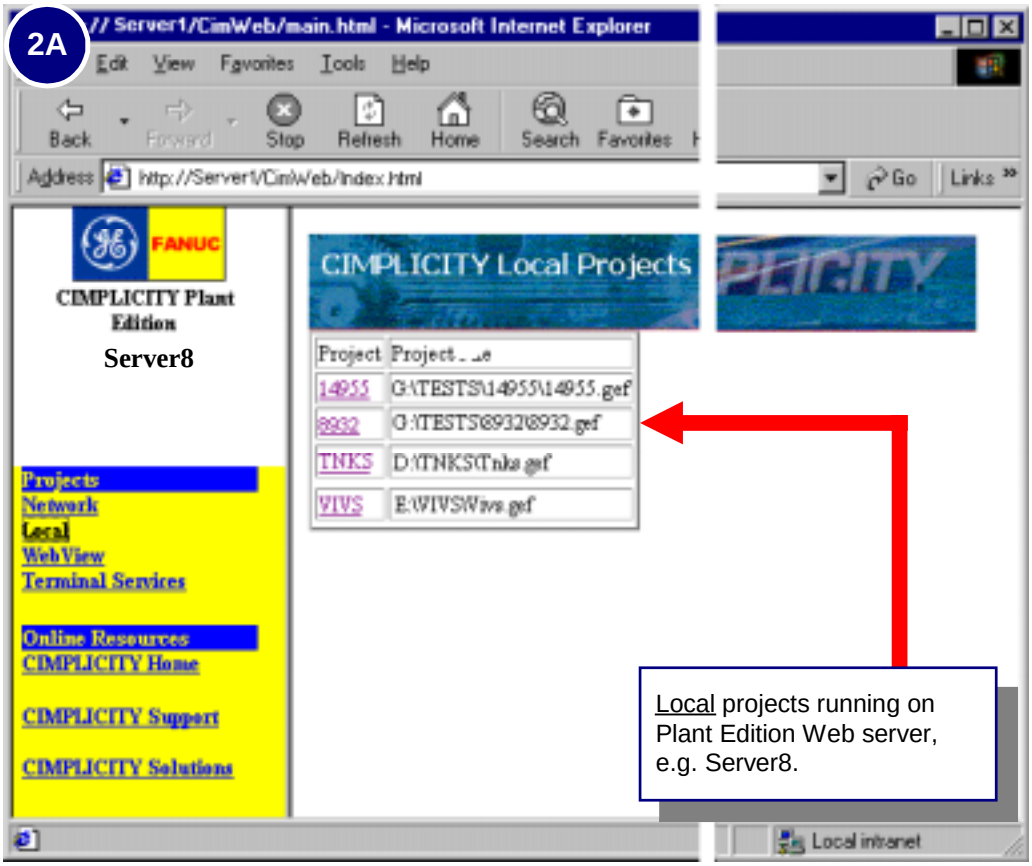
Clicking Local in the Web browser left frame displays a list of projects that are running on the local CIMPLICITY Plant Edition Web server.



2A. CIMPLICITY Local Projects Page

The CIMPLICITY Local Projects page displays a list of projects that are running on the local WebView server.

Clicking one of the project links opens the Project page for the selected project.

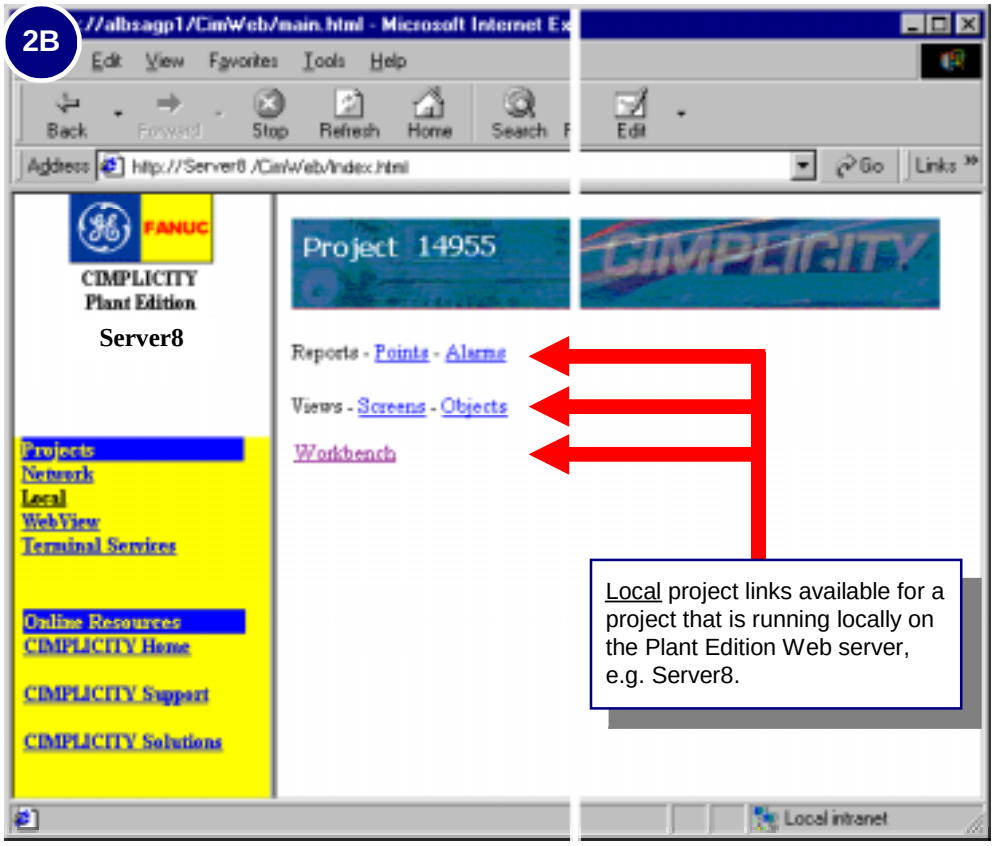


2B. Project Page (for Local Project)

The Project page displays links to project data.

Links include:

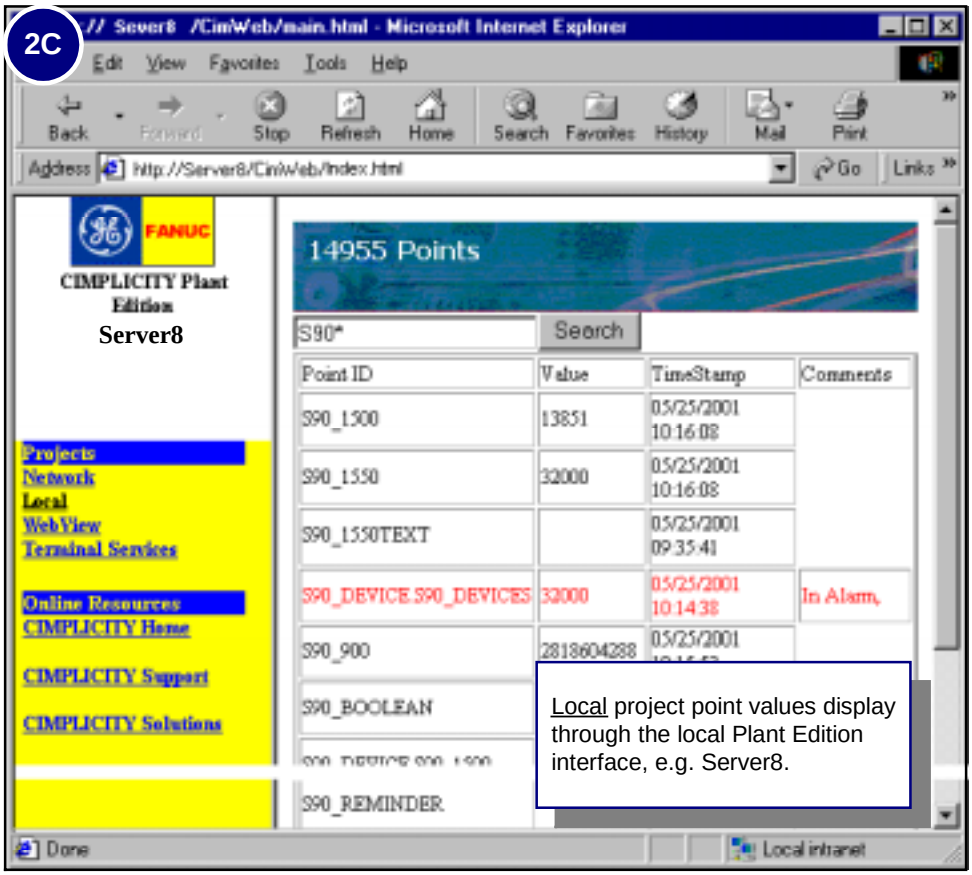
- Points
- Alarms
- Screens
- Objects
- (*For Terminal Services servers*) Workbench. *See page 2-26.*



2C Points Page (for Local Project)

The Points page displays a list of points in the project that is running on the Web server.

The display is, in essence, a snapshot of the values. When a user refreshes the browser screen, the values are updated.



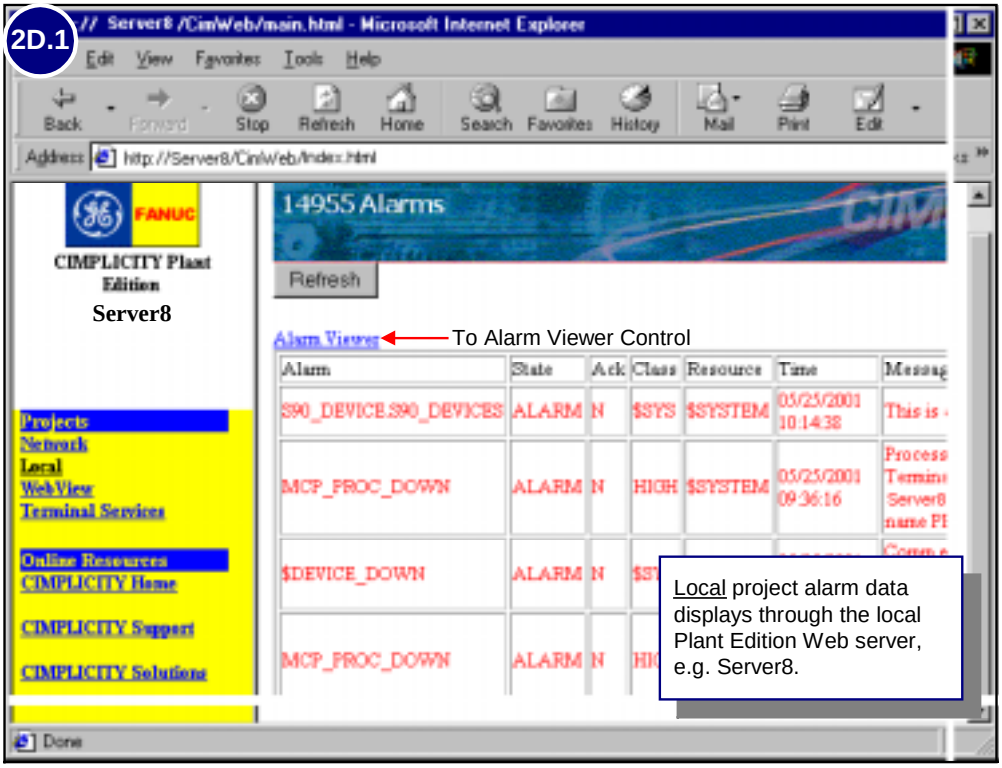
The Points page:

1. Displays the following point data for the selected project.
   - Point ID,
   - Value,
   - TimeStamp and
   - Comments.
2. Provides a Search field in which users can enter criteria for which Point ID's should display.

   Accepted wildcard search values include * ?

2D.1 Alarms Page (for Local Project)

The Alarms page displays through the local WebView server interface.



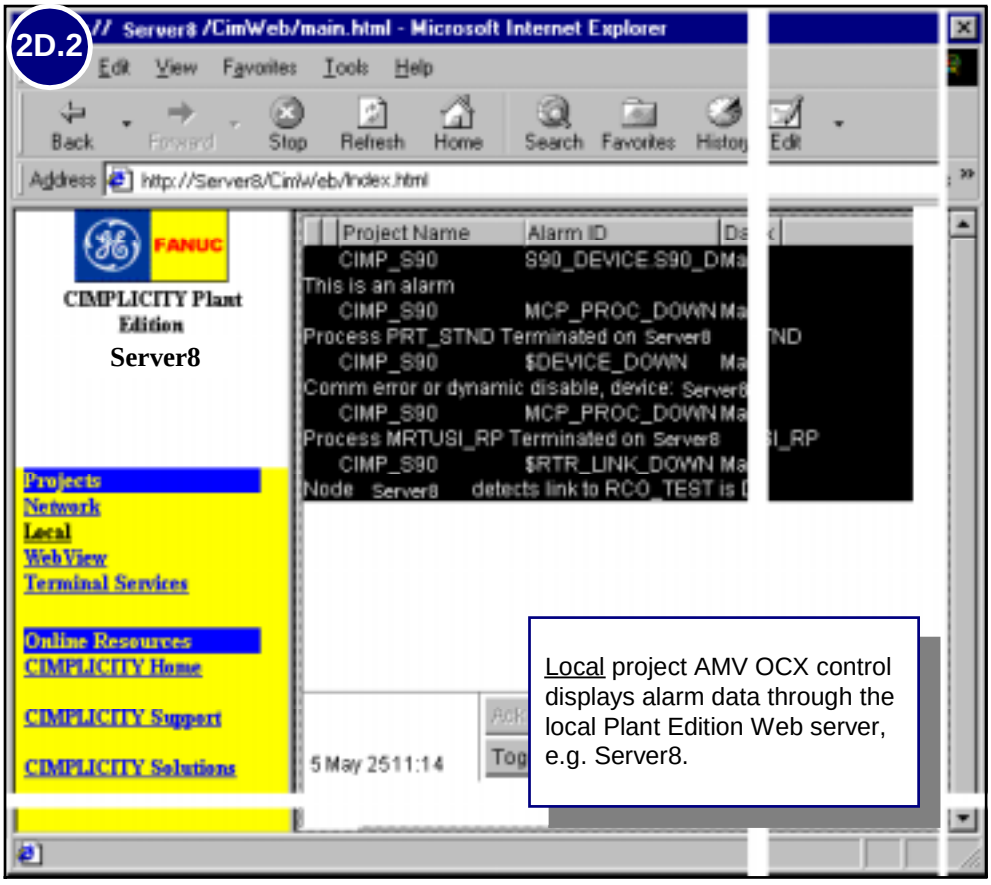
The Alarms page:

1. Displays the following alarm data for the selected project.
   - Alarm ID,
   - Alarm state,
   - If the alarm is acknowledged,
   - Resource,
   - Time alarm was generated,
   - Alarm messages and
   - Alarm comments.
2. Provides a link to a configured Alarm Viewer OCX Control (AMV OCX) page.

2D.2 Alarm Viewer Page (AMV Control for Local Project)

The Alarm Viewer Control screen is a WebView screen that is simply a CimView screen with an embedded AMV Control.

The Alarm Viewer Control page requires a WebView license.



An authorized user can perform the following functions through the default WebView Alarm Viewer Control.

- Acknowledge alarms,
- Reset alarms and
- Delete alarms.

The Comments and View Stack dialog boxes cannot currently be opened through the web browser.

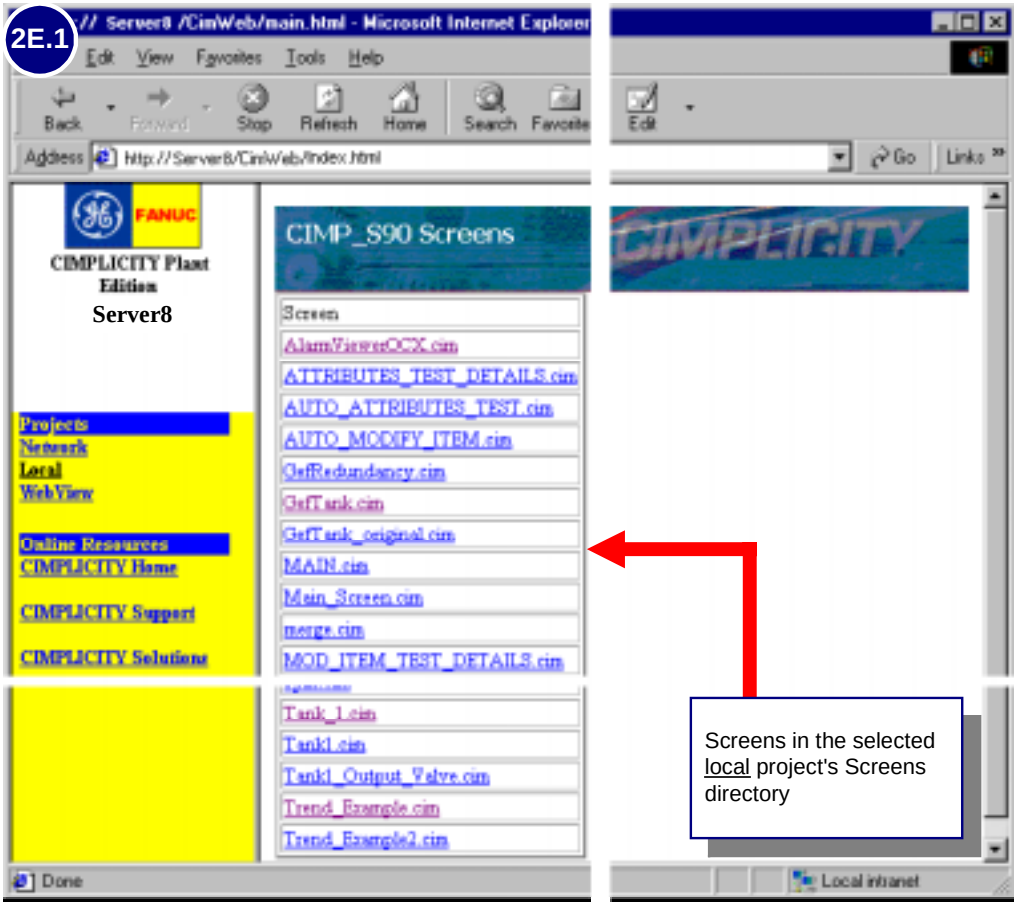
2E.1 CIMPLICITY Screens List Page (for Local Project)

The default CIMPLICITY Plant Edition Screens page provides a list of screens that are available to the selected local project. When a user clicks a link a screen will display for the selected screen through the Browser interface. No prior configuration beyond creating the CimView screen is required.

When a user views one of these screens through a:

- WebView server, the session uses one WebView license.
- Terminal Services server, the session uses one Terminal Services license.

See the chapter "Viewing CimView through Web Browsers" for limitations about viewing WebView screens through WebView.



2E.2 Screen (for Local Project)

The screen that was selected from the list of project screens displays through the Browser interface.

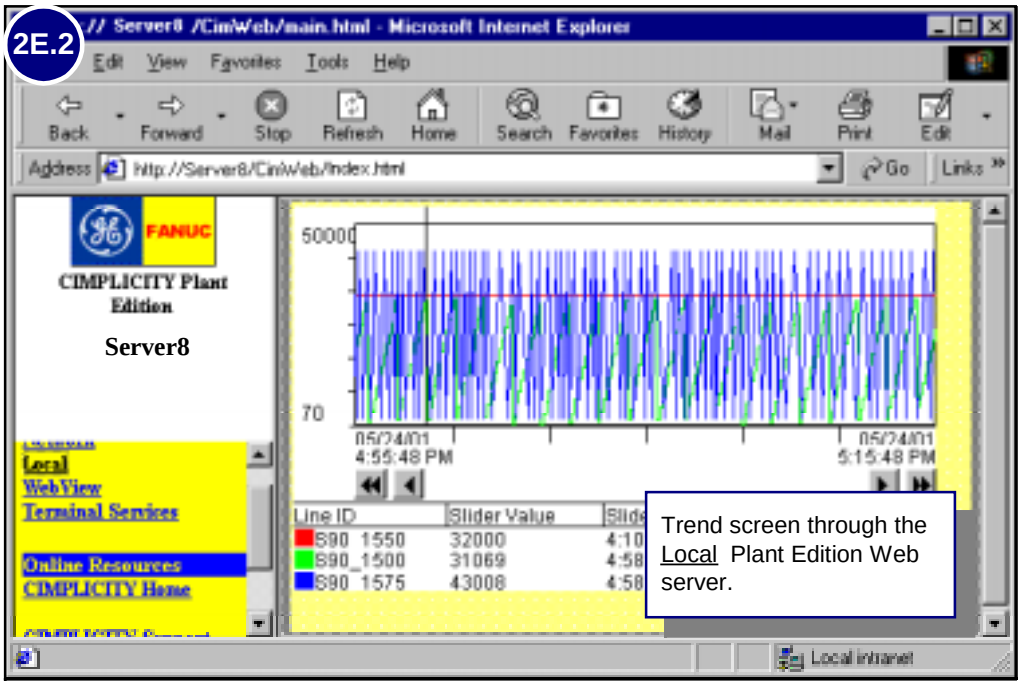
On a WebView server, the selected screen provides the user with the same functionality as stand-alone WebView screens.

See the chapter "Viewing CimView through Web Browsers" for a list of local features that will and will not work through a Web browser.

The Screen page requires a:

- WebView license on a server that is running WebView only.
- Terminal Services license on a server that is running WebView and Terminal Services.

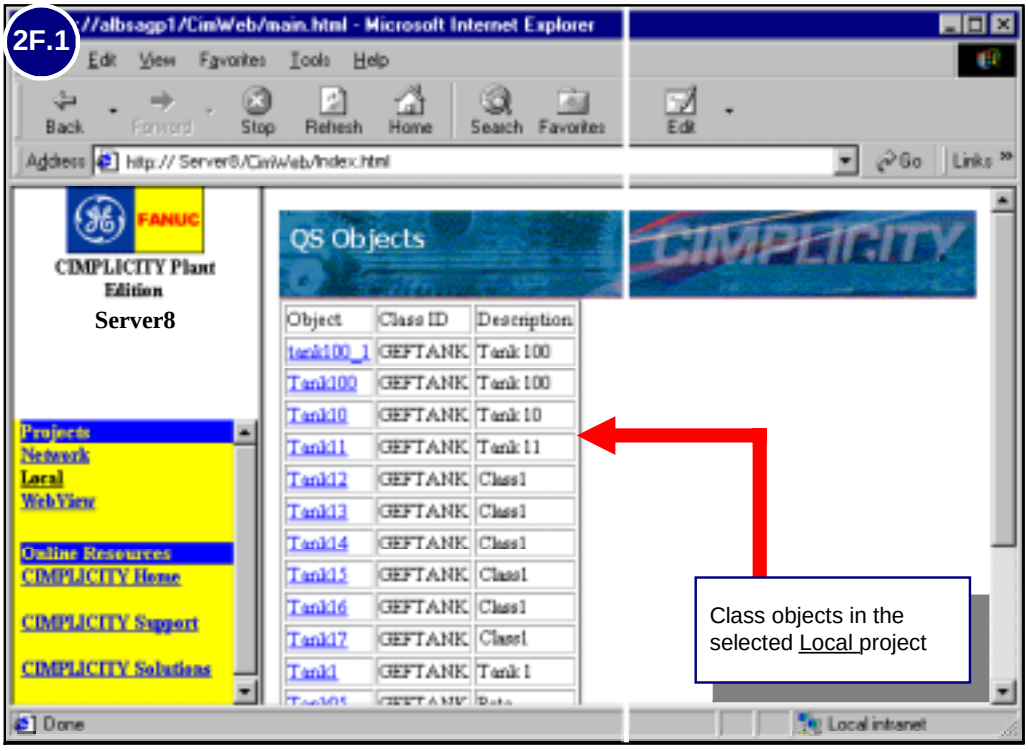
  A Windows Log On dialog box for Terminal Services will appear before this page displays.



2F.1 Objects List Page (for Local Project)

The default CIMPLICITY Plant Edition project page provides a list of links to the class objects that are available in the selected local project.

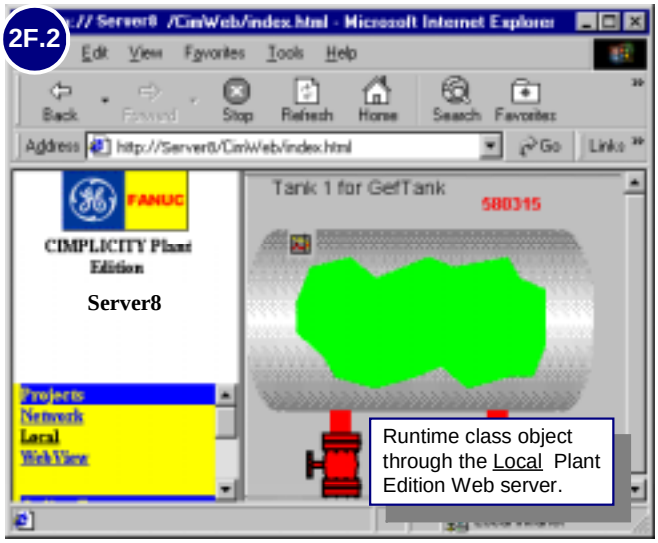
Note: These are the same objects that are listed in the project's Workbench.



2F.2 CIMPLICITY Object Page

When a user clicks an object link, WebView displays the object through the Browser interface.

The Object page requires a WebView license.



3. WebView Screen through the Web Interface

WebView screens can display throughout the Browser interface from:

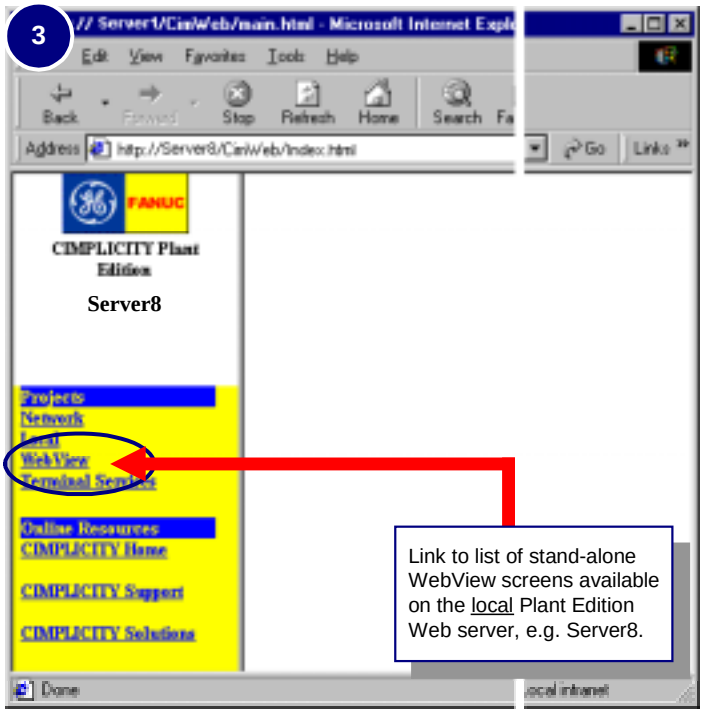
- Project screens,
- An Alarm Viewer Control and
- Class objects.

A WebView screen can also be available as a

- Read-only broadcast screen that enables several users to view it at the same time and use only one WebView license among them.
- Screen that can also be accessed through an explicit URL (independent of the Browser interface).

See the chapter "Configuring WebView Sessions" in this manual for details about configuring these screens.

The Web Browser interface provides easy access to these screens through a WebView link in the left frame.



If you have not configured an Index.html file a default list of WebView screens displays.

See the section "WebView Home Page Configuration" in the "Configuring WebView User Sessions" chapter in this manual for details about stand-alone WebView pages.

4. Terminal Services Server through the Web Interface

If the local Web server is also a Terminal Services server, an authorized user has two ways to utilize Terminal Services through the default CIMPLICITY Plant Edition Browser interface.

CIMPLICITY Plant Edition provides the following default Web pages for Terminal Services.

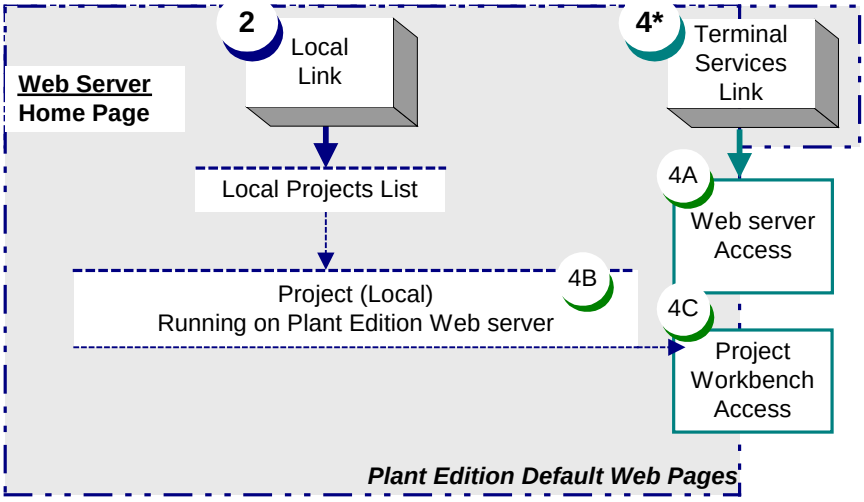
4 CIMPLICITY Web server Home page

4A Full Terminal Services access

4B Web server Project page

4C Workbench only access

Default Map of Your CIMPLICITY HMI Plant Edition Web Access

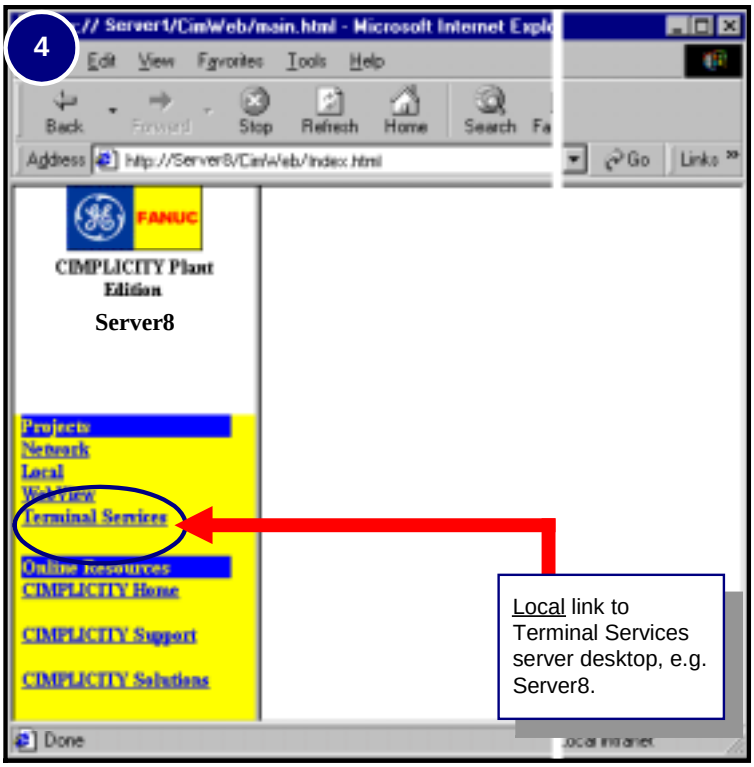


4* Available when Web server is also a Terminal Services server.

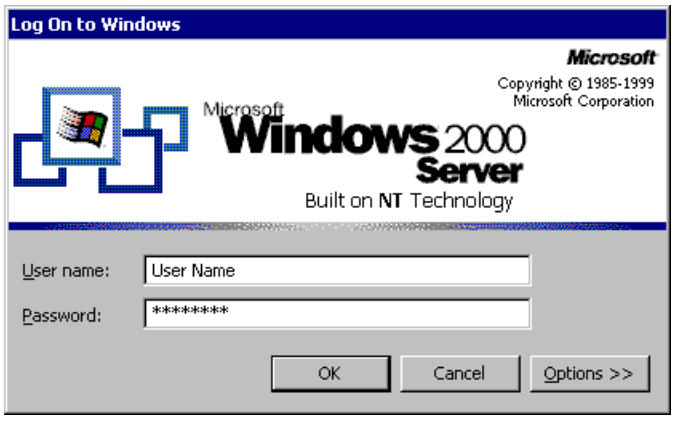
4. CIMPLICITY Web Server Home Page

The Web server Home page displays when a user enters an explicit server URL the Internet browser Address field.

If the Web server is also a Terminal Services server, the Web pages display a Terminal Services link in the left frame that provides access to the Terminal Services server.



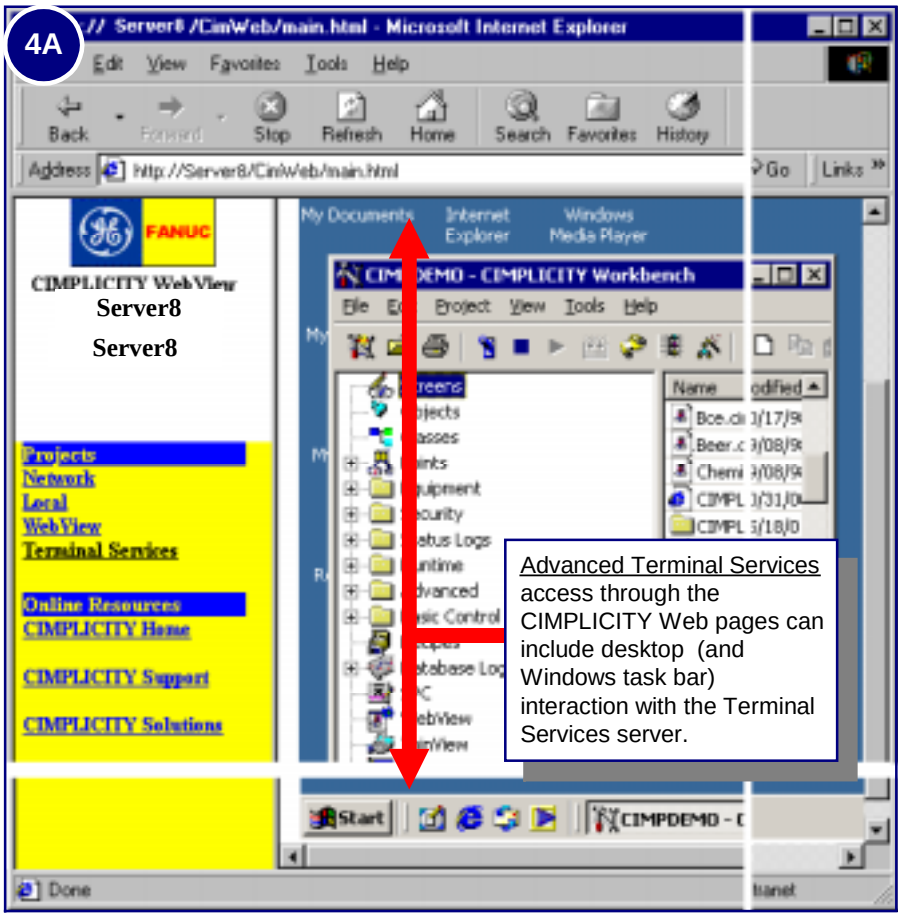
Note: A Microsoft Log onto Windows dialog box appears after Terminal Services is clicked. The dialog box requires an authorized name and password before access to the Terminal Services server is granted.



4A Terminal Services Server Access

When a user has entered a correct user name and password in the Microsoft Log On to Windows dialog box the Terminal Services server allows the authorized access.

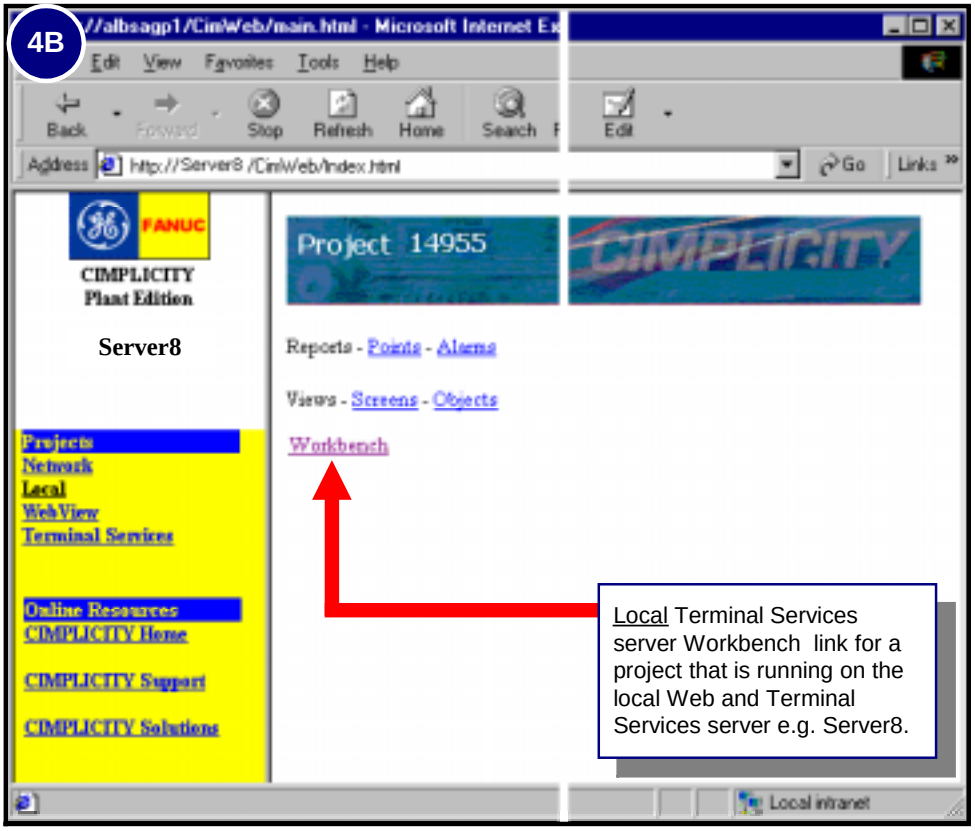
Access to the Terminal Services server requires a Terminal Services license.



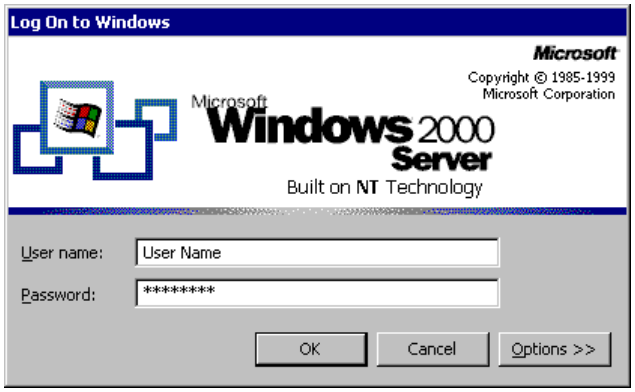
Note: A user continues to work through the local Web server interface. The other Web pages links remain available.

4B. Terminal Services Local Project Page Link

A Web server Project page for a selected local project provides a link to the project's Workbench, if the Web server is also a Terminal Services server.



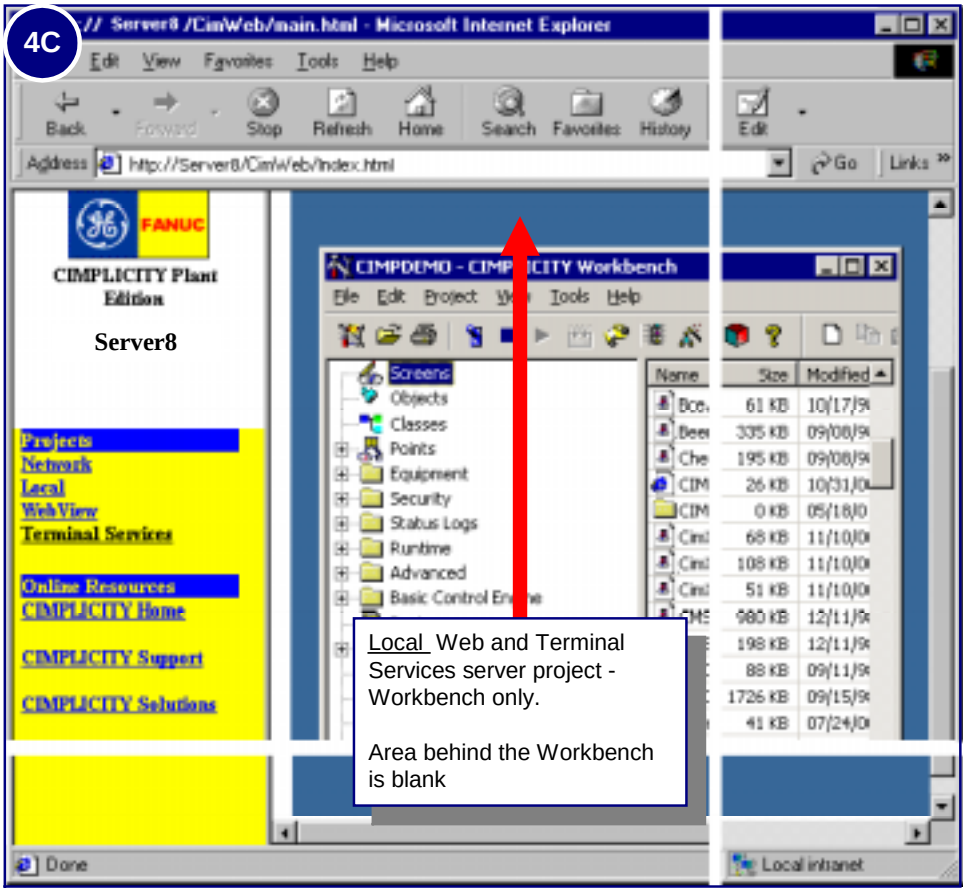
Note: A Microsoft Log On to Windows dialog box appears when a user clicks Terminal Services. The dialog box requires an authorized name and password before access to the Terminal Services server is granted.



4C. Terminal Services Workbench Access

When a user enters a correct name and password in the Microsoft Log On to Windows dialog box the Workbench displays in the Web and Terminal Services server page. The user has access to the Workbench configuration for which he or she is authorized.

Access to the Workbench on a Terminal Services server requires a Terminal Services license.



The page behind the Workbench is blank. A user does not have access to any other area of the Terminal Services server.

Other Default WebView CIMPLICITY Links

The default Web server pages provide users with links to CIMPLICITY web pages that contain important information about CIMPLICITY products, updates and plans.

Pages include:

Page 1 CIMPLICITY Home page

Page 2 CIMPLICITY Service and Support page

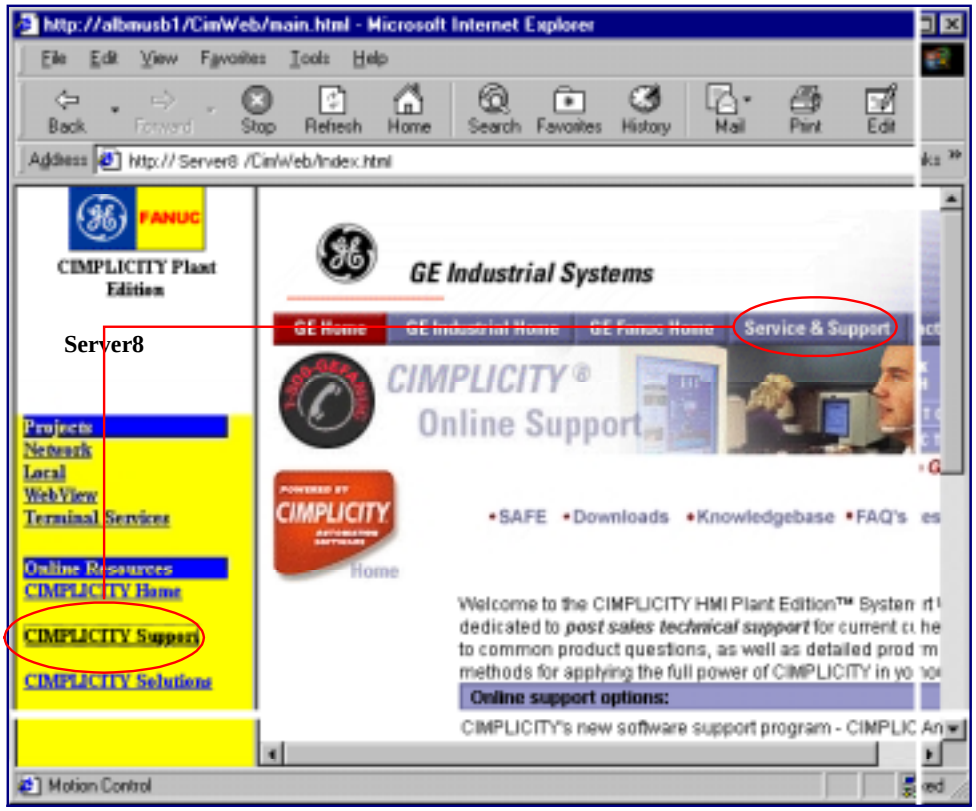
Page 3 CIMPLICITY Solutions page

CIMPLICITY Home Page

The CIMPLICITY Home Page provides access to the entire CIMPLICITY software web site.

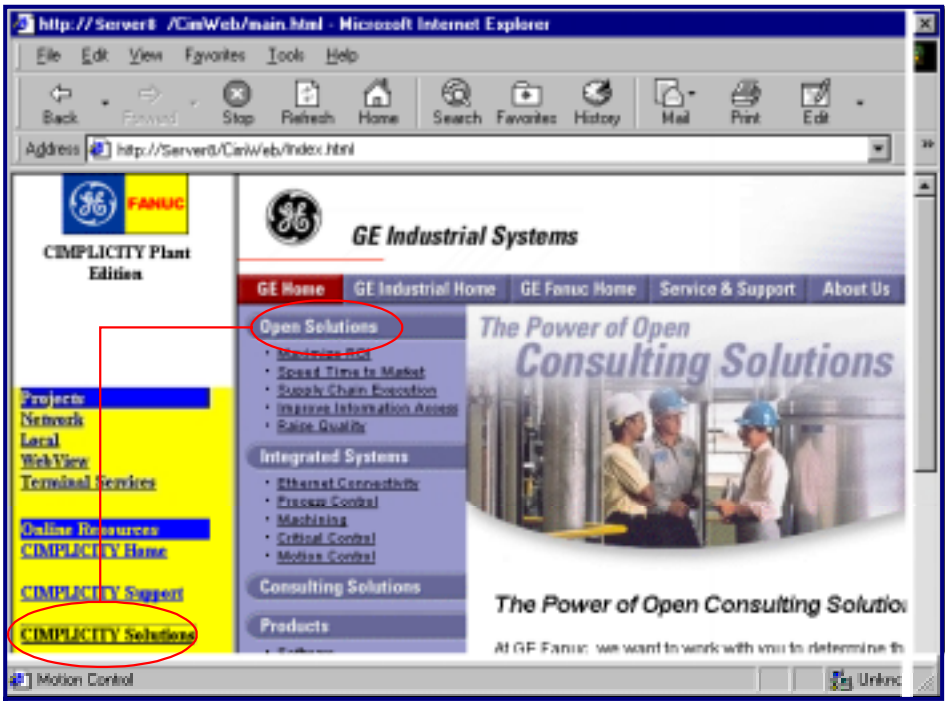
CIMPLICITY Service and Support Page

The CIMPLICITY Service and Support page links to pages that describe and provide multiple GE Fanuc service and support options.



CIMPLICITY Solutions Page

The CIMPLICITY Solutions page links to pages that describe and provide multiple GE Fanuc service and support options.



Introducing WebView

Welcome to WebView

Welcome to WebView.

WebView enables a user to view CimView screens through the Web. WebView screens can display through and independent of the CIMPLICITY Plant Edition Web browser interface.

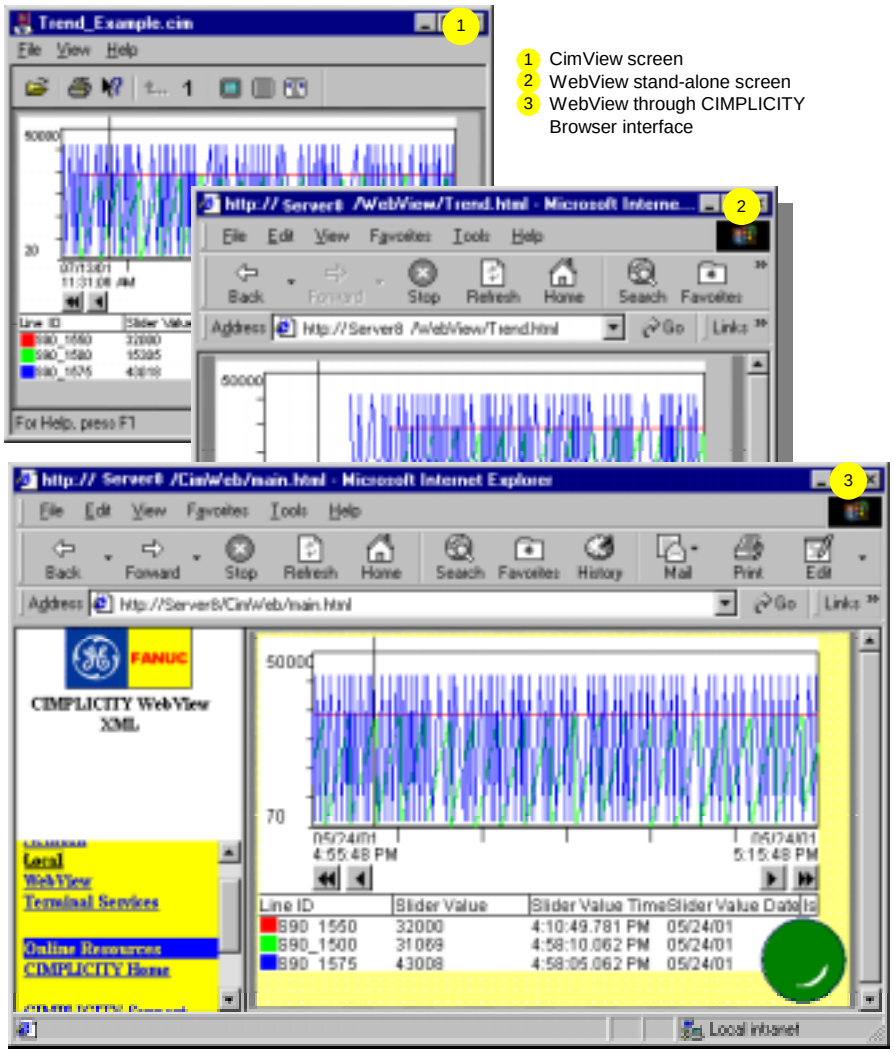
This enables an authorized user who is at a remote location, to:

- Participate in a user session and interact directly with a CIMPLICITY project screen or
- Enter a broadcast session and view pre-determined read-only CIMPLICITY screens.

WebView:

- Increases your CIMPLICITY HMI server capabilities by making it a Web server, if you select to use the CIMPLICITY Web server capability. *See the "Introducing your CIMPLICITY HMI Web Access" chapter in this manual for information about Web server installation.*
- Automatically publishes a home page that will display when a user goes to a specified Web address.
- Enable a user (who has security clearance to participate in a user session) and use the home page as a starting point to display and interact with CimView screens that you have created for one or more CIMPLICITY HMI projects.
- Enable an unlimited number of users to view a pre-determined read-only CIMPLICITY screen.

WebView is particularly useful if a user, who is working with a laptop or at a remote location that does not have a CIMPLICITY HMI viewer.



You, the system administrator or CimView screen designer, do not need to edit separate HTML files. In fact, you do not need to know HTML. With WebView, you only need to enable a user to overlay one CimView screen with others, check a few specifications and the feature will be ready for use.

Hardware and Software Requirements

Server Requirements for WebView

The computer you use as the WebView server must meet the minimum requirements specified for a CIMPLICITY HMI server.

Client Requirements for the Web View

In order to use WebView on a client you need to have either:

- Microsoft Internet Explorer 4.0, or higher, or
- (*Stand-alone WebView screens only*) Netscape Navigator/Communicator 4.06, or higher

Running on Windows NT, Windows 98 or Windows 2000.

WebView Licenses and Sessions

When you purchase licenses to view WebView screens you purchase X number of licenses for X number of sessions.

Sessions can be:

Session	Purpose
User	A user with security clearance can remotely access and interact with a CIMPLICITY project through a CIMPLICITY Web screen. Users can interact with the CIMPLICITY Web screen by: ▪ Entering a URL in the browser Address field that goes directly to a stand-alone WebView screen or ▪ Opening a screen through the CIMPLICITY Plant Edition Web pages.
Broadcast	An unlimited number of users can remotely view a pre-determined read only screen. Users can open the read-only WebView screens either by: ▪ Entering a URL in the browser Address field that goes directly to a stand-alone WebView screen or ▪ Opening a screen in the CIMPLICITY Plant Edition Web pages.

The total number of sessions running can equal up to the number of purchased licenses. The sessions can be all user sessions, all broadcast sessions, or a mixture of the two types.

Each CIMPLICITY Plant Edition version 5.5 server comes with one CIMPLICITY Web screen license.

Registering your CIMPLICITY WebView Option

After you install WebView, you must register it. CIMPLICITY WebView is registered like any other CIMPLICITY option using the CIMPLICITY Registration program. WebView client licenses are available in single-user, 5-user, 10-user, 25-users and 50-user options. You can combine licenses to register any supported number of users. For example, you can register two single-user and one 5-user licenses to have a total of 7 users.

There is a limit of 50 client users that can be registered per server. To accommodate additional users you can add additional servers.

Configuring WebView Screen Easy Steps

Easy Steps for WebView Screen Configuration

You can use WebView to automatically configure HTML screens from CimView screens. You can actually configure a CimView screen to be an index screen through which users can open other screens. You can make WebView convert all of these screens, so you have a WebView site that emulates a Viewer's CimView interface. You can create a working WebView site by implementing the following easy steps. (If you use Windows NT make sure you have administrator privileges.)

Once WebView is up and running, you will see how straightforward your planning will be.

Steps for the Server

Step 1. Install CIMPLICITY HMI (and the demo) on the Web server. Select the WebView feature during installation. *See "WebView Installation" in the "Introducing your CIMPLICITY HMI Web Access" chapter for more detail.*

Step 2. Double-click the **WebView** icon in the left or right pane of the Workbench to display the CIMPLICITY Options dialog box. *See "CIMPLICITY Options Dialog Box" in the "Configuring WebView: Detailed" chapter for other methods.*

Step 3. Select the WebView tab in the CIMPLICITY Options dialog box.

Step 4. Click the **Create Web Page** button to open the Create Web Page dialog box. *See "WebView Home Page Configuration" in the "Configuring WebView–Detailed" chapter.*

Step 5. Browse for a CimView screen (for example, Applied.cim) to place in the CimView screen field. The screen functions as a main screen when a user opens the Viewer. If the screen is not on the Web server, make sure that a drive is mapped to the remote computer or enter a UNC name e.g., **`\\computer\shared\Applied.cim`**.

Step 6. Enter **`index.html`**, which is an accepted Home Page name, in the Web page file field.

Step 7. Click **OK**.

Step 8. Select the Broadcast Sessions tab in the CIMPLICITY Options dialog box.

Step 9. Configure a broadcast session.

Monitor Sessions

Step 1. Specify the WebView server.

Step 2. Monitor all WebView sessions.

Step 3. Monitor broadcast sessions.

Steps for the WebView Browser

Step 1. Configure your Internet browser connection. If you are using a proxy server, make sure it is bypassed for an Internal Network (Intranet) connection.

Step 2. Open the Web browser.

Step 3. Enter **`http://WebServerName/WebView`**

Where

`ServerName` is your Web server's computer name.

Note: If you don't know your Web server's computer name, click the **Network** icon in the Microsoft Control Panel and find it on the Identification tab in the Network dialog box.

Example

You create a home page using the **`Applied.cim`** file that is in the CimpDemo project.

1. Enter the WebView URL when you open the browser.
   Applied.cim displays as the URL's home page.
2. Select any screen and click the **Click button for demo** button.
   The selected screen replaces (overlays) the home page.

Configuring WebView Screens through CIMPLICITY Options

About WebView Screen Configuration

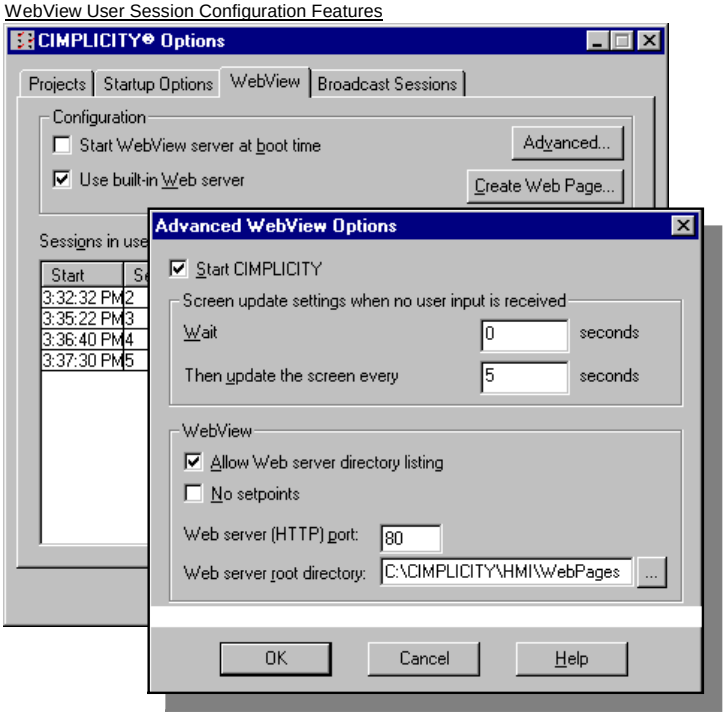
There are several options you can use to configure WebView screens to your specifications.

This appendix provides you with:

- Methods to open the CIMPLICITY Options dialog box and display the WebView tab. *See page 5-2.*
- Options for WebView home page configuration. *See page 5-4.*
- Advanced WebView user session configuration features.

See "Monitoring WebView Sessions" in this manual for details about using the WebView server to monitor WebView user and broadcast sessions.

WebView User Session Configuration Features



Note: A consolidated WebView/ThinView tab displays if you have ThinView and WebView installed The WebView entries are the same as they are if you only install WebView.

WebView Tab Displayed

Once WebView is installed, you can configure WebView project user sessions. You can also monitor WebView sessions through the WebView tab in the CIMPLICITY Options dialog box.

Steps to display the WebView tab include:

Step 1. Open the CIMPLICITY Options dialog box.

Step 2. Select the WebView (or WebView/ThinView) tab.

Step 1. Open the CIMPLICITY Options dialog box:

Method 1: Windows Start Menu

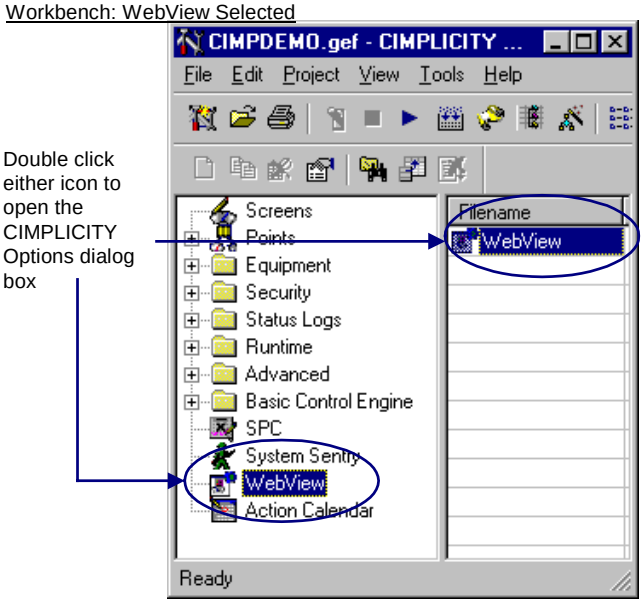
1. Click **Start** on the Windows menu bar.
2. Click CIMPLICITY.
3. Click HMI.
4. Click CIMPLICITY Options.

   The CIMPLICITY Options dialog box opens.

Method 2: CIMPLICITY HMI Workbench

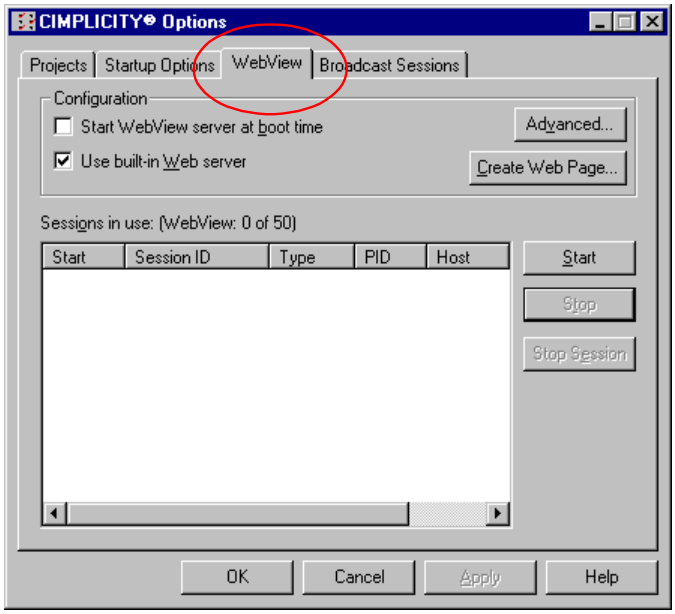
1. Open a project in the CIMPLICITY HMI Workbench.
2. Double click the WebView icon in the left or right pane of the Workbench.

Workbench: WebView Selected



Result: The CIMPLICITY Options dialog box opens.

Step 2. Select the WebView tab:



Result: The WebView tab of the CIMPLICITY Options dialog box displays.

WebView Stand-alone Screens Home Page Configuration

You can easily create a home Web page using the WebView tab on the CIMPLICITY Options dialog box.

If you want to create the Web page using HTML, you can. However, it is easier to let WebView create it for you.

Letting WebView Create a Home Page for a CimView Screen

Following is a way to create an effective WebView home page without knowing HTML or any other Web related code.

- Create a CimView screen to your specifications.
- Let WebView create a home page for it.

Very likely, you already have a main screen for a CIMPLICITY HMI project that a user opens first. Specify that screen as your home page in the root directory or in a subdirectory. If you do not have the screen you want, you can create it that same way you would any other CimView screen.

Note: If you do not create a home page, the Web server may list all of the folders and HTML files that are currently in the WebPages directory. This can help provide a quick start up. However, it should probably be replaced with a more focused screen.

To let WebView create an HTML file for a CimView screen:

1. Display the WebView tab in the CIMPLICITY Options dialog box.
2. Click **Create Web Page** .

   The Create Web Page dialog box opens.
3. Click **Browse Screen** to find the CimView screen that you want to display when a user logs onto the Web site.

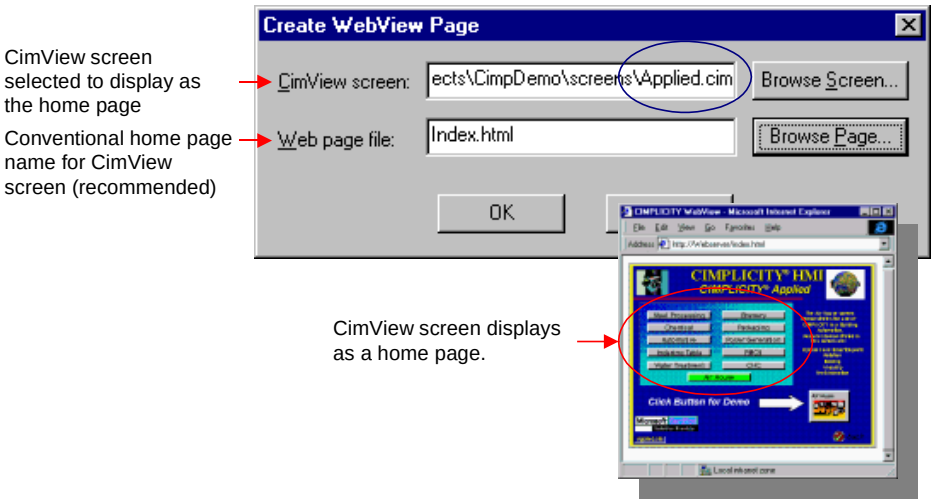
   The screen and path you select display in the CimView screen field.
4. (Optional) Click **Browse Page** to select a subdirectory of the WebPages directory.
5. Enter a name for the HTML file in the Web page file field.

   If you choose a screen a name that is not a conventional home page name, the user can only display the Web page through available Web options. Options include entering the screen name as part of the URL, using a hypertext jump (that you configure) or letting the Web server display a default list. *See the "Displaying a Default List Instead of a Home Page" section in this chapter for information about that option.*
6. Click **OK**.

   WebView creates the HTML file with the name you specify and places it in the directory you specify.

   When a user goes to the home page, he or she will then be able to overlay (switch to) all the screens that the home page (CimView screen) accesses.

Example: WebView's Automatic HTML Capability



Important: If you choose to use the Microsoft Internet Information Server instead of the Web server, make sure you specify the IIS Web directory (typically **`C:\InetPub\wwwroot`**) when you create a Web page. (Use the **Browse Page** button to navigate to the directory.)

Using a Standard HTML Home Page for a User Session

If you want to create your own HTML file to display as the home page for your **CimView** screens, you can. Simply create it in Notepad, Word, or any of the Web page editors.

To use a manually created HTML file as a WebView home page:

1. Give the file a name the Web recognizes as a home page file.
2. Place the file in either:
   - The Web server's root directory, or
   - A subdirectory in the root directory.

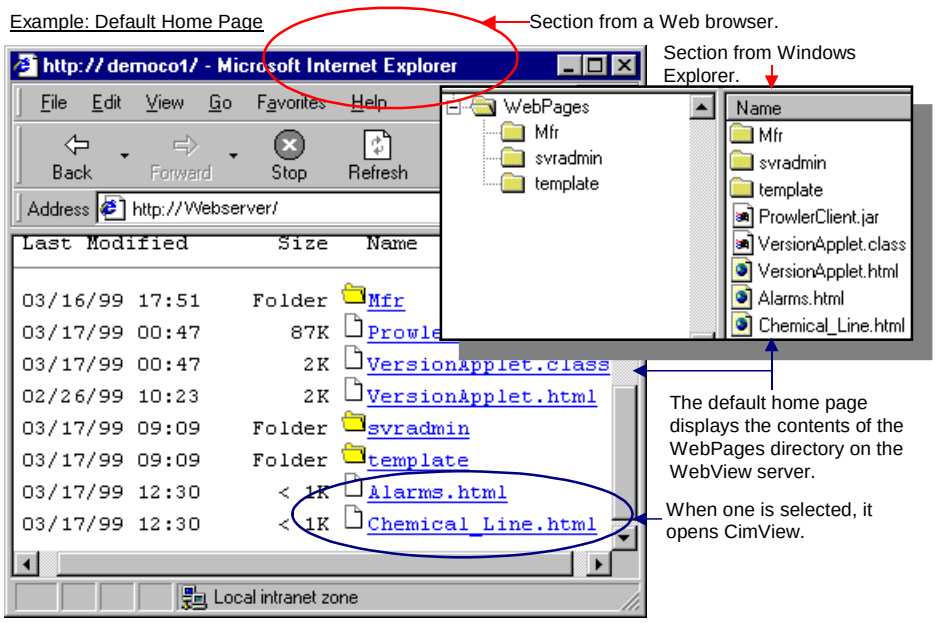
   A remote user will have to type the subdirectory name as part of the URL. *See the "Home Page File Location" section in the "Locating Files for CIMPLICITY Plant Edition Web Pages" chapter in this manual.*

Displaying a Default List Instead of a Home Page

If you do not specify a home page, the Web server creates a default list that displays when a client logs onto the Web site. The default list displays the contents of the WebPages directory. You probably will not want to display this page on a regular basis. In fact, you can specify that this page never displays.

See the "Configuring WebView Advanced Options" section in this chapter for details.

The default list looks similar to the following example.



Tip: The most efficient way for a user to move from one screen to another is to open one CimView screen and then overlay other CimView screens from that screen. In essence, the user will have opened CimView once and then will move from screen to screen within CimView.

In contrast, a default list is only a web page, not a CimView screen. Therefore, each time a user clicks on a CimView file in the default list, a new session of CimView has to open. Obviously, this is more time consuming than starting CimView once.

See the "Creating Procedures in CimEdit" chapter in the "CimEdit Operation Manual" GFK-1396 for a description of creating procedures that contain Overlay Screen actions.

Advanced WebView Options for User Sessions

There are several advanced options for refining the WebView performance during a user session. You can find these options in the Advanced Options dialog box.

To do advanced WebView user session configuration:

1. Make sure the Web server is stopped.
2. Select the WebView tab on the CIMPLICITY Options dialog box.
3. Click **Advanced**.

   The Advanced WebView Actions dialog box opens.
4. Keep Start CIMPLICITY checked.

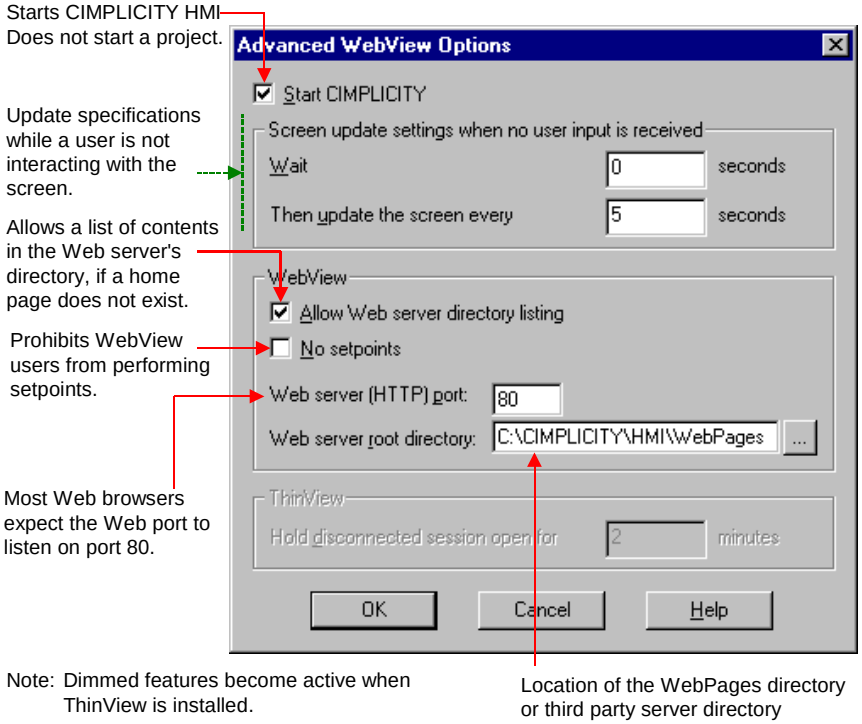
   Note: If you uncheck Start CIMPLICITY you will stop the Web server from communicating with other servers that have CIMPLICITY projects in the WebView configuration. This option enables WebView developers to isolate the Web server, when necessary.
5. Specify whether to allow the Web server to list the WebPages directory contents as a default home page, when a home page does not exist.
   - Check Allow Web server directory listing to allow the display.
   - Leave Allow Web server directory listing blank to forbid the display. Be sure to include a home page file in the WebPages directory or subdirectory if you leave this option blank. If a home page file does not exist, the Web server will display an error message when a client attempts to view the Web site.
6. Check No setpoints if you want to prohibit WebView users from performing setpoints.
7. Leave the default of 80 in the Web server (HTTP) port field. Most Web browsers expect the Web server to listen on port 80.

   Note: This setting also applies for broadcast sessions.
8. Normally, use the default root directory used by the built-in Web server that displays in the Web server root directory field. Only files in this directory and in any subdirectories will be available from the Web server. If you modify the location of this directory, make sure you copy the ProwlerClient.jar file to the new location.
9. (Optional) Slow down the rate at which WebView sends updates to the client when a user is not interacting with the screen, for example, clicking a button. Make the following entries in the Screen update setting when no user input is received box. Enter the number of seconds in the:
   A. Wait (n seconds) field that WebView should continue to send updates to the client at the normal rate.
   B. Then update the screen every (n seconds) field. WebView will wait the number of seconds you specify before sending an update.

Note: When a user is interacting with the screen, updates come in real time. If there is no activity from the user for the period specified in the Wait field, the system will slow down its updates out to the WebView client and only update it at the rate specified in the Then update the screen every field.

This helps reduce the load on a system by reducing the updates out to WebView if a user is not interacting with the system.

Advanced WebView Options Dialog Box


Starts CIMPLICITY HMI
Does not start a project.
Update specifications while a user is not interacting with the screen.
Allows a list of contents in the Web server's directory, if a home page does not exist.
Prohibits WebView users from performing setpoints.
Most Web browsers expect the Web port to listen on port 80.
Advanced WebView Options
Start CIMPLICITY
Screen update settings when no user input is received
Wait
0
seconds
Then update the screen every
5
seconds
WebView
Allow Web server directory listing
No setpoints
Web server (HTTP) port:
80
Web server root directory:
C:\CIMPLICITY\HMI\WebPages
...
ThinView
Hold disconnected session open for
2
minutes
OK
Cancel
Help
Note: Dimmed features become active when ThinView is installed.
Location of the WebPages directory or third party server directory

Configuring WebView Broadcast Sessions

About WebView Broadcast Session Configuration

A broadcast session provides you with the means to broadcast a CIMPLICITY WebView screen to an unlimited number of users who can view it from remote locations. The screen that users view is a pre-designated read-only screen. They can not click any buttons, perform screen transfers, or any other interactive operations. However if, for example, 1000 remote operations persons need to review the performance of a system's processes, they can by using a broadcast session to view the CIMPLICITY screen that reports the processes. In terms of the CIMPLICITY license, only one session is running.

This chapter provides you with:

- Methods to open the CIMPLICITY Options dialog box and display the Broadcast Sessions tab.
- Broadcast session configuration features

See "Monitoring WebView Sessions" in this manual for details about monitoring broadcast sessions.

Broadcast Sessions Tab Displayed

Once WebView is installed, you can open the WebView tab of the CIMPLICITY Options dialog box either through the Windows Start Menu or through the CIMPLICITY HMI Workbench. This tab contains the WebView broadcast configuration options.

Steps to display the Broadcast Sessions tab include:

Step 1. Open the CIMPLICITY Options dialog box.

Step 2. Select the Broadcast Sessions tab.

Step 1. Open the CIMPLICITY Options dialog box:

Method 1: Windows Start Menu

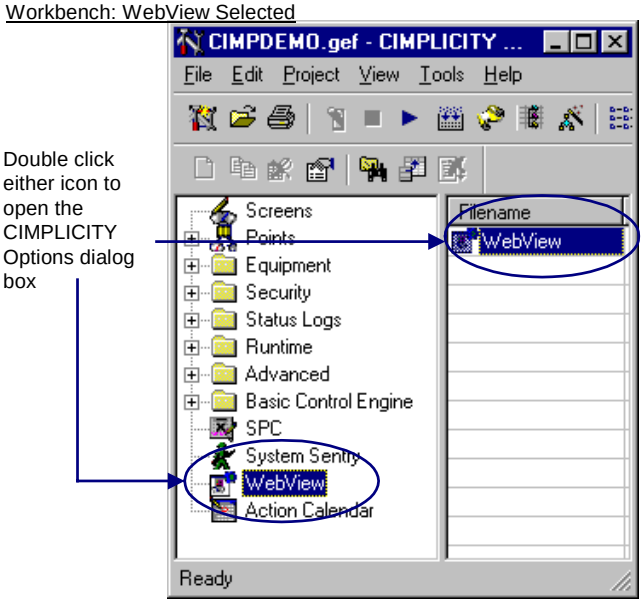
1. Click **Start** on the Windows menu bar.
2. Click CIMPLICITY.
3. Click HMI.
4. Click CIMPLICITY Options.

   The CIMPLICITY Options dialog box opens.

Method 2: CIMPLICITY HMI Workbench

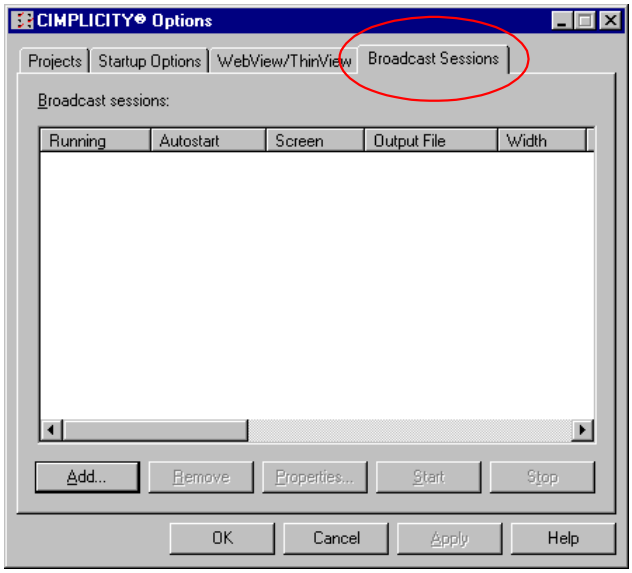
1. Open a project in the CIMPLICITY HMI Workbench.
2. Double click the WebView icon in the left or right pane of the Workbench.

Workbench: WebView Selected



Result: The CIMPLICITY Options dialog box opens.

Step 2. Select the Broadcast Sessions tab:



Result: The Broadcast Sessions tab of the CIMPLICITY Options dialog box displays.

WebView Broadcast Session Configuration

Configuring a broadcast session is straightforward.

- Open a new Session Properties dialog box.
- Enter specifications for the broadcast session.

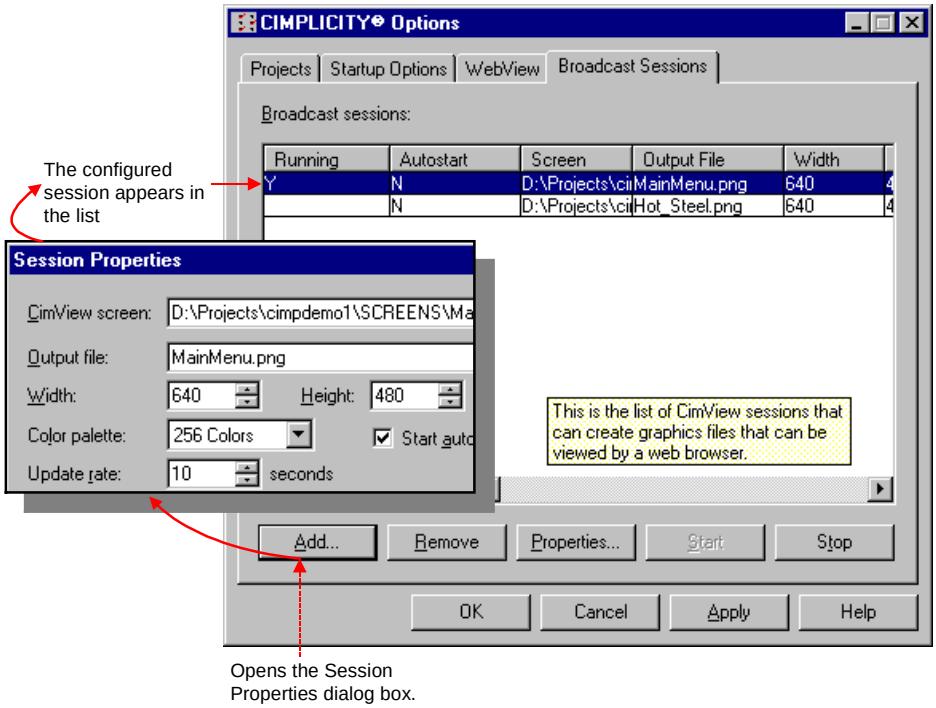
Opening a New Session Properties Dialog Box

To open a new Session Properties dialog box:

Click **Add…** on the Broadcast Sessions tab of the CIMPLICITY Options dialog box.

Result: The Session Properties dialog box opens.

Broadcast Session Added to List



Once you enter specifications in the Session Properties dialog box and click **OK**, the session will be added to the Broadcast sessions list.

Note: You can add as many non-running Broadcast sessions to the list as you want. A session is included in licensed sessions when it is running. When the purchased license quota has been filled the next Broadcast session that you attempt to run will not start.

Configuring a Broadcast Session

The Session Properties dialog box provides you with the tools to specify what CIMPLICITY screen will display during each broadcast session and configure display details.

Steps to configure the broadcast session include:

Step 1. Define the files for the broadcast session.

Step 2. Configure details about the broadcast session display.

Step 3. Specify if the broadcast session should start automatically.

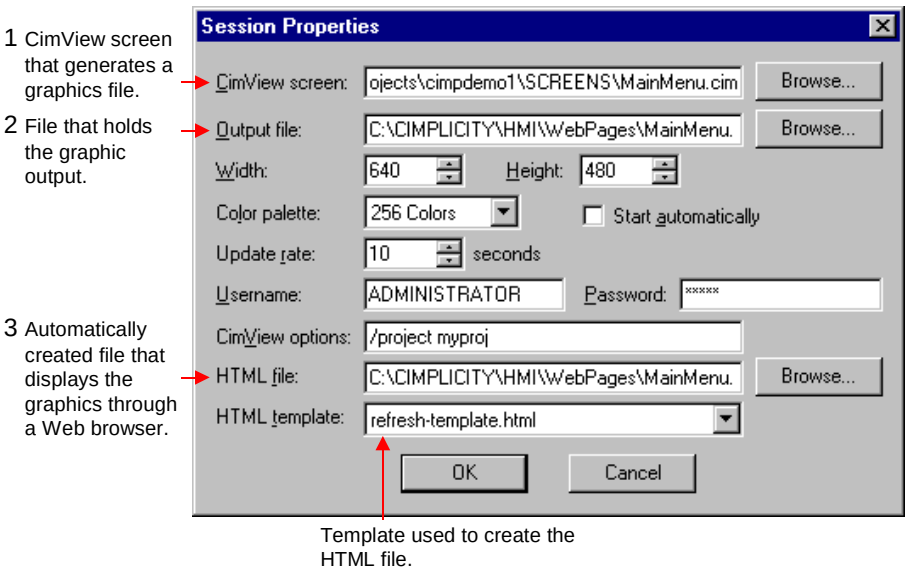
Step 4. Enter CimView options.

Note: The only requirements are to specify a CimView screen and output file.

Step 1. Define the Files for the Broadcast Session

WebView Standard insures that a selected CimView screen is a read-only file when viewed during a broadcast session. It does this by converting the **`.cim`** file into graphics output. A **`.png`** file that you name holds the graphic output. An **`HTML`** file then displays the graphics output through a Web browser.

WebView Broadcast Session Files



Step 1. Define the files for the broadcast session:

1. Click **Browse...** to find the **`.cim`** CimView screen that you want to generate the graphics file during the broadcast session.

   The screen and path you select display in the CimView screen field.

2. Click **Browse...** to specify the name and location of the **`.png`** file that will hold the graphic output.
3. (Optional) Enter the name for an HTML file that will display the graphics through a Web Browser.

Note: If you:

- Do *not* specify a location, WebView Standard places the file in the **`CIMPLICITY\HMI\WebPages\WebView`** directory.
- Do *not* enter a file name, a user can view the **`.png`** file through the Web browser. However, the screen will not refresh itself, since the refresh rate is specified in the HTML template. (The user will need to enter the **`.png`** extension when entering the URL.)

4. Select a template in the HTML template field.

   The HTML template is used to create the HTML file. WebView Standard provides a default refresh-template.html.

   This template specifies the rate at which the Web browser will collect and display a new copy of the graphic file. Whether the new copy is different from the previous depends on the update rate specified in the Session Properties dialog box (*See Step 2*) and, of course, if the CimView screen has changed.

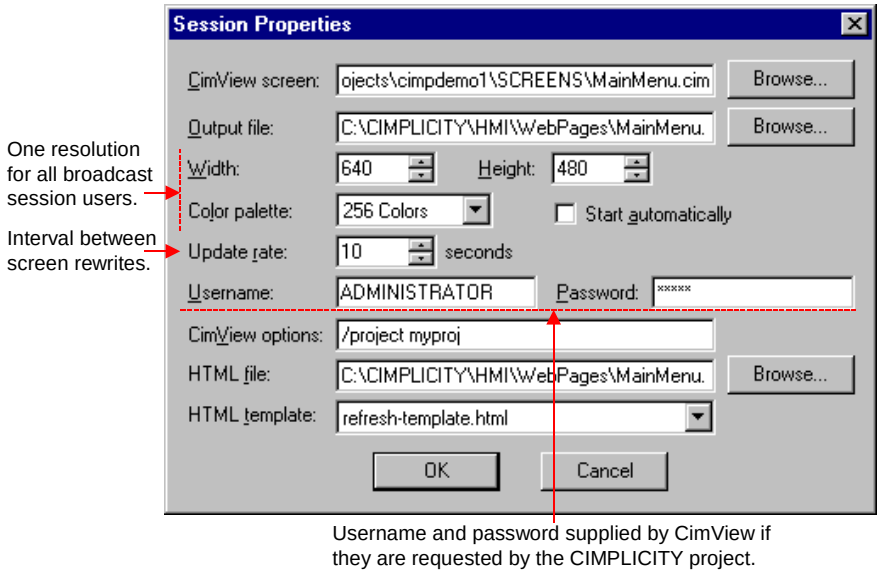
   You can use this template, modify it or create your own.

   `Refresh-template.html` is located in the **`CIMPLICITY\HMI\WebPages\template\Broadcast`** folder.

Step 2. Configure Details about the Broadcast Session Display.

There are several details that you can configure for a broadcast session.

Broadcast Session Details



Step 2. Configure details about the broadcast session display:

1. Enter the screen width and height in the Width and Height fields. The default is 640 x 480.

   Tip: Use resolutions that correspond to screen resolutions, e.g., 800 x 600 or 1024 x 768.

2. Select the number of total possible colors that should display in the Color palette field.

Choices include:

- 256 colors (default),
- 65536 colors, or
- True color.

Caution: The higher the resolution you choose, the larger the file will be.

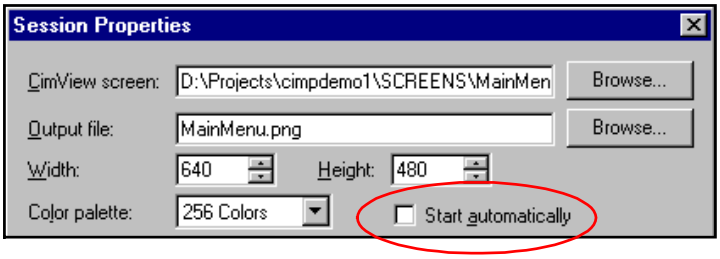
3. Specify the number of seconds WebView should wait between screen rewrites in the Update rate field.
4. Make entries in the Username and Password fields that CimView will use if the CIMPLICITY project requests a user name and password.

Step 3. Specify if the Broadcast Session should start Automatically

You can start the broadcast session manually or specify that it should start when the server starts.

Step 3. Specify if the broadcast session should start automatically:

Check the Start automatically check box to start the broadcast session when the server starts.



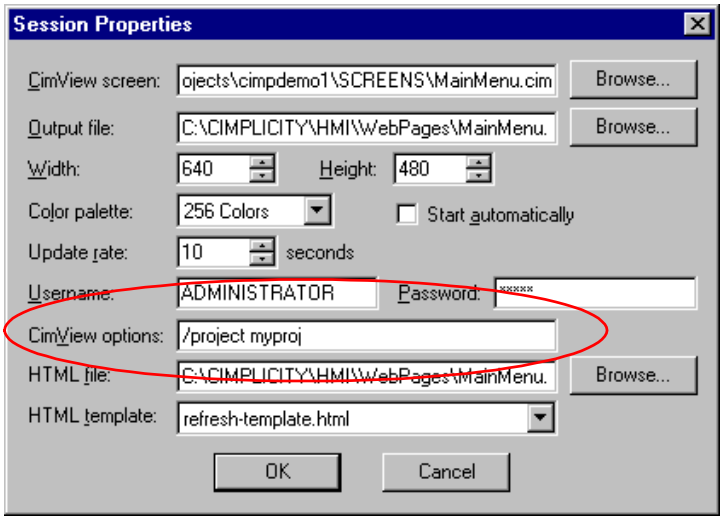
Note: If the total running user and broadcast sessions equal the number of purchased licenses, the broadcast session will not start. Instead, the Running column on the Broadcast Sessions tab will be blank even if the server is running.

Step 4. Enter CimView Options

You can specify additional command line options to be passed to CimView.

Step 4. Enter CimView options:

Enter any of the following command line options in the CimView options field.



Supported options include:

`/project`
`/offline`
`/loadScript`
`/loadCache`
`/TouchDyn`
`/TouchStat`
`/TouchActive`

Monitoring WebView Sessions

About Monitoring WebView Sessions

A WebView session occurs whenever a user views a CimView screen that WebView converts for Web use. A session can be screens, including project screens, the Alarm Viewer and Objects that a user views through the CIMPLICITY Plant Edition Web pages or the Web pages that you had WebView convert from CimView screens through the CIMPLICITY Options dialog box.

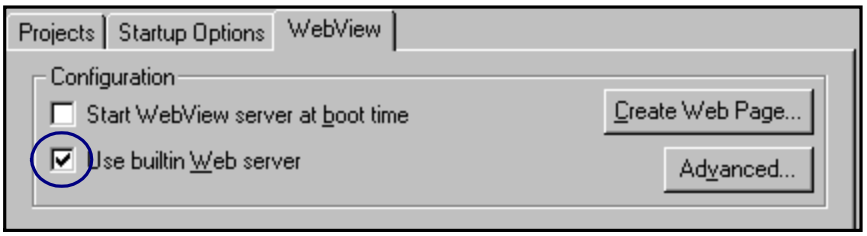
Monitoring WebView sessions includes:

- Select whether to use the WebView built in server.
- Monitor all WebView sessions on the WebView tab.
- Monitor broadcast sessions on the Broadcast Sessions tab.

About the WebView Server

WebView comes with a built-in Web server. The Web server can handle basic Web page requests. You can choose to use the Microsoft Internet Information Server instead. This will not affect the benefits that WebView offers.

CIMPLICITY Options Dialog Box: Section of WebView Tab



To use WebView's built-in Web server:

1. Select the WebView tab of the CIMPLICITY Options dialog box.
2. Check Use built-in Web server to use the WebView built-in Web server.

   (Leave the check box blank to use a third party Web server.)

Microsoft Internet Information Server with WebView

WebView supports Microsoft Internet Information Server (IIS) as a third party server.

To use IIS with WebView :

1. Uncheck the Use built-in Web server check box on the WebView tab of the CIMPLICITY Options dialog box.
2. Copy the ProwlerClient.jar file to the IIS Web server's root directory.
3. Take advantage of WebView's Create a Web Page dialog box. Use the **Browse Page** button to navigate to your IIS Web directory (typically **`C:\InetPub\wwwroot`**).

All WebView Sessions Monitor

WebView provides you with a monitor on which you can:

- Specify when the WebView server should start, enabling sessions to start.
- View what WebView client sessions, including user and broadcast, are running.
- Stop WebView, which stops all sessions and
- Stop a selected session.

Specifying when the WebView Server should Start

You can specify that WebView should start:

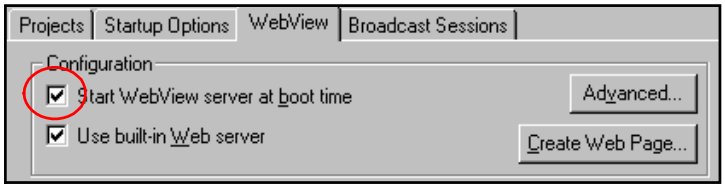
Option 1. When the computer boots up.

Option 2. When you manually start it.

The default WebView configuration starts the WebView server at boot time.

Option 1. Start WebView at boot time:

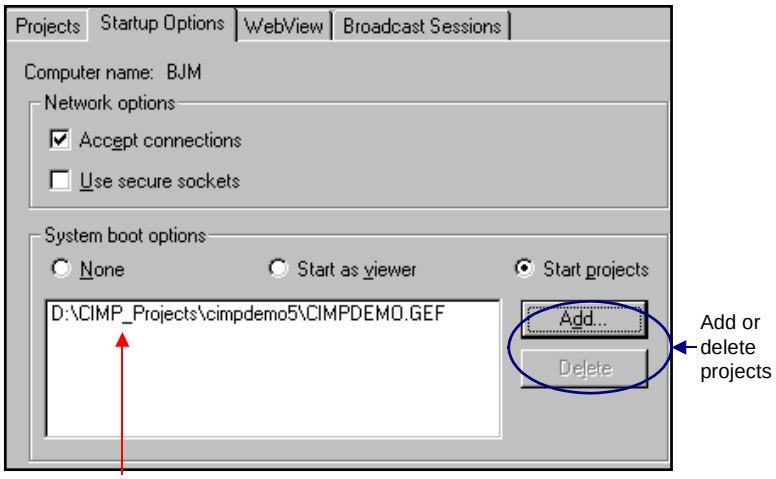
1. Open the CIMPLICITY Options dialog box.
2. Select the WebView tab.
3. Check the Start WebView server at boot time check box.



This does *not* configure your CIMPLICITY project to start.

To configure a CIMPLICITY project to start at boot time:

CIMPLICITY Options Dialog Box: Startup Options Tab (Windows NT Example)



A. Select the Startup Options tab of the CIMPLICITY Options dialog box.

B. Select Start Projects in the System boot options box.

C. Click **Add**.

D. Select the project or projects that contain the screens a client will view on the web.

E. Select the WebView tab to continue configuration.

Result: The selected CIMPLICITY project will start the next time the computer boots up.

Option 2: Start the WebView server manually:

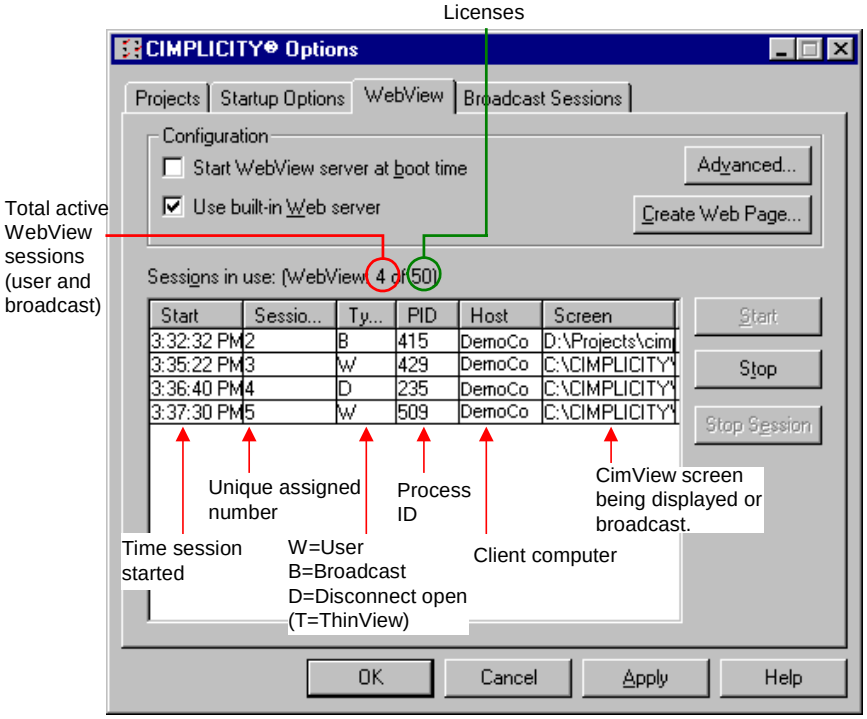
1. Open the CIMPLICITY Options dialog box.
2. Select the WebView tab.
3. Click **Start**.

   The WebView server will start.
4. Make sure that a CIMPLICITY HMI project is running.

Viewing what WebView User and Broadcast Sessions are Running

The WebView tab displays a monitor in which you can view what user and broadcast sessions are running along with details about those sessions.

CIMPLICITY Options: WebView (WebView/ThinView) Tab Displaying an Active Session



Note: A consolidated WebView/ThinView tab displays if you have ThinView and WebView installed. The WebView entries are the same as they are if you only install WebView.

To see what WebView (client) sessions are running:

1. Select the WebView tab of the CIMPLICITY Options dialog box.
2. Review the information in the sessions box.

Column	Displays the:
Start	Time when the WebView session started on a client computer.
Session ID	Unique assigned number that identifies the session. This Session ID is also logged in the log files.
Type	W=WebView user session; B=Broadcast session; D=WebView (ThinView) disconnect session is open; T=ThinView (when ThinView is installed.)

PID	Process ID. (If you are running Windows NT, you can view the Process ID on the Task Manager Processes tab.)
Host	Name of the client computer.
Screen	Screen that is being displayed on the client computer.

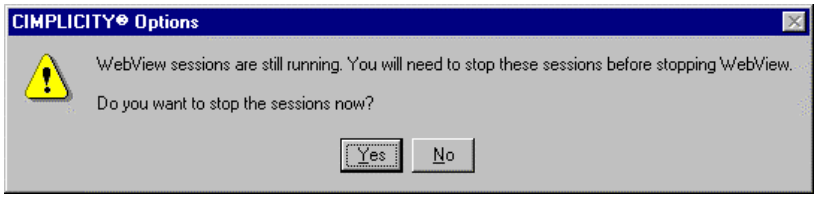
2. Keep track of the number sessions running relative to the number of purchased licenses. Total WebView sessions include both user and broadcast sessions.

Note: If you attempt to run a user session when the number of licenses has been reached, WebView will log an error message. If you attempt to run a broadcast session, the session will not start.

Stopping the WebView Server

1. Open the CIMPLICITY Options dialog box.
2. Select the WebView tab.
3. Click **Stop** .

   If there are sessions running, a message will inform you and ask you if you want to stop the sessions.

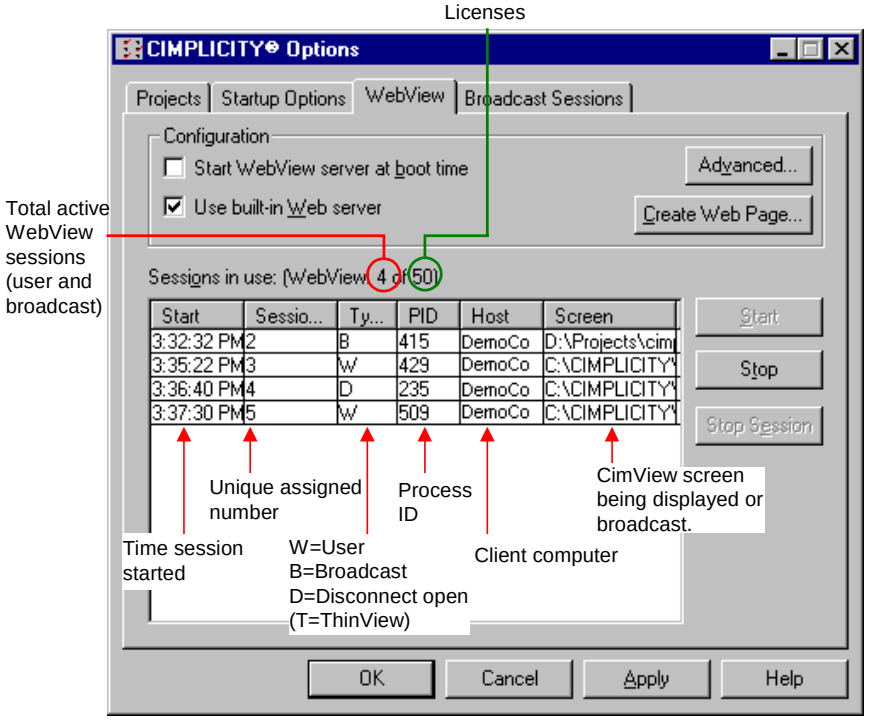

CIMPLICITY® Options
WebView sessions are still running. You will need to stop these sessions before stopping WebView.
Do you want to stop the sessions now?
Yes
No

4. Click **Yes** to stop the sessions.

   Result: WebView will stop only after all the sessions have stopped.

   Any CIMPLICITY HMI project that is running will continue to run.

CIMPLICITY Options: WebView (WebView/ThinView) Tab Displaying an Active Session



Stopping a WebView Session

If you want to stop a WebView session, you can.

To stop a WebView session:

1. Open the CIMPLICITY Options dialog box.
2. Select the WebView tab.
3. Select the WebView session that you want to stop in the Sessions box.
4. Click **Stop Session**.

Result: Only the selected session stops.

Broadcast Sessions Monitor

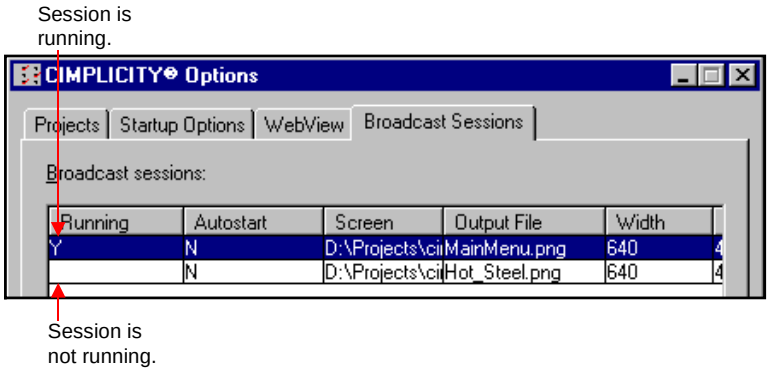
Broadcast sessions start on the server. (This is the opposite of user sessions, which are started remotely if the WebView server and CIMPLICITY project are running.) Therefore you can:

- Maintain a list of broadcast sessions, some of which may be running,
- Specify when a broadcast session starts,
- Stop a selected session, and
- Remove a selected session from the list.

To monitor sessions in the Broadcast sessions list:

1. Review the Running field to determine which broadcast sessions are running.

Entry	Means
Y	Sessions are running.
Blank	Sessions are not running.



2. Start a selected session as follows:

   Method 1

   A. Click **Properties** to open the Session Properties dialog box.

   B. Check Start automatically.

   The session will start when the WebView server starts. If the WebView server is already running, the session will start after the WebView server stops and restarts.

   Method 2

   Click **Start**.

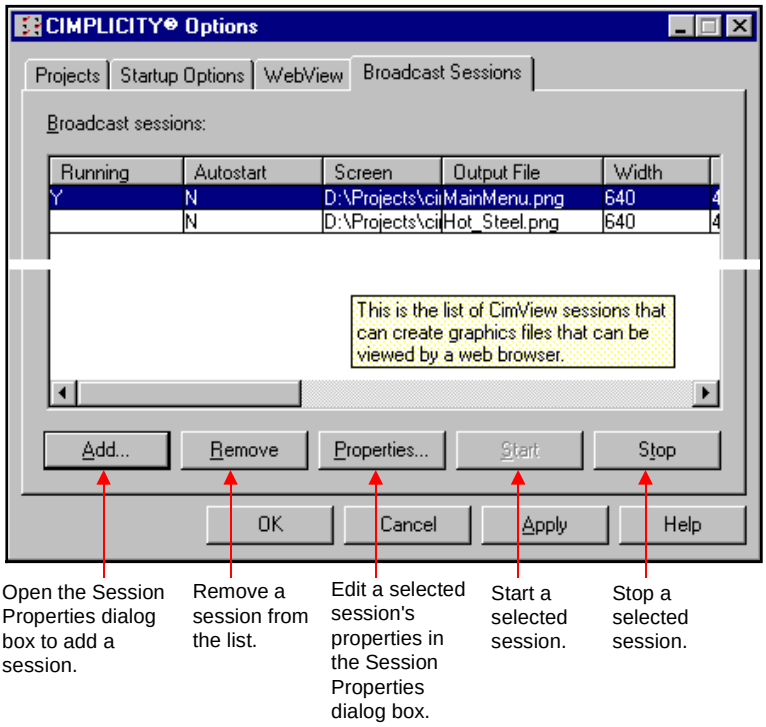
   The session starts (as long as there are available licenses).

   Note: The running session appears in the Sessions in Use list on the WebView tab.

3. Click **Stop** to stop a selected session.

   Note: All broadcast sessions will stop if the WebView server is stopped.

4. Click **Remove** to remove a selected session from the Broadcast sessions list.



Locating Files for CIMPLICITY Plant Edition Web Access

CIMPLICITY Web Access File Location Overview

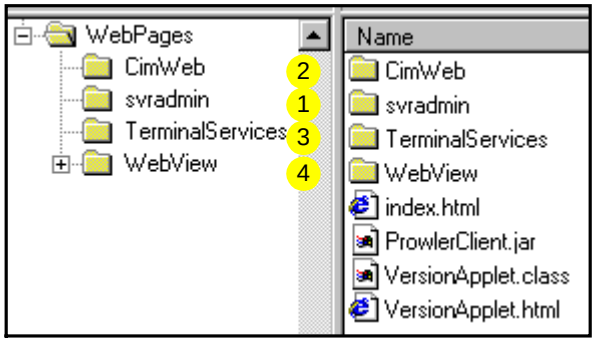
Web access files, which are installed by default are located in the **\CIMPLICITY\HMI\WebPages** directory.

The WebPages directory contains:

- Web server files.
- Folders that contain the files for the default CIMPLICITY Plant Edition Web pages components.

  The folders under the WebPages folder are:

Folder	Files in Folder
Svradmin	Web server files
CimWeb	Web Browser interface files
WebView	WebView and **HTML** screens for stand-alone WebView screens.
Terminal Services	Sample **HTML** file.

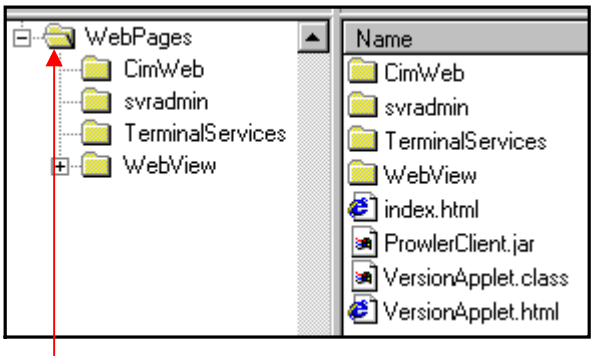


WebPages files/folders for:

1. Web server
2. Web Interface pages
3. Teminal Services sample page
4. WebView screens stand-alone pages

Web Server File Location

The CIMPLICITY Plant Edition Plant Edition Web files come with a built-in Web server. The root directory for the default Web server files is WebPages.



Default Web server root directory.

Web server files enable a computer to function as a Web server. WebView's built-in Web server executables are installed when you select the WebView feature.

By default, the Web browser interface uses its built-in Web server.

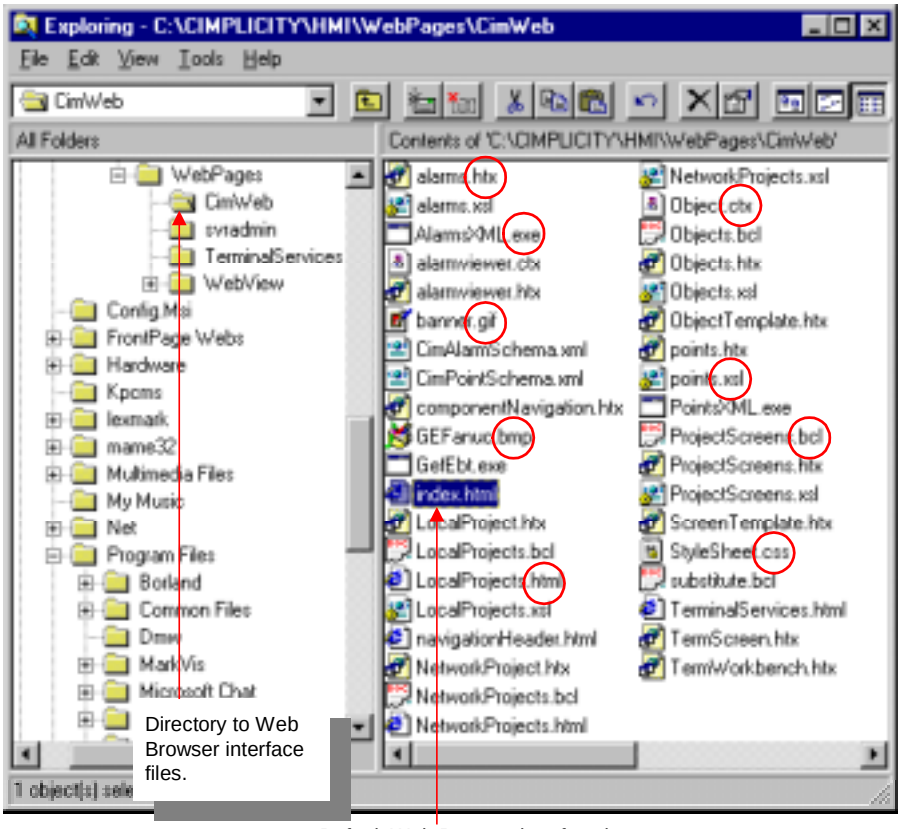
If you want to use a third party Web server application for WebView, you need to follow a simple procedure to incorporate WebView's other features. The third party Web server must be installed on the WebView server computer.

To use a third party Web server application for WebView:

1. Install the third party application on the computer that will be the WebView server.
2. Follow the third party configuration documentation.
3. Open Microsoft Explorer.
4. Expand the WebPages directory that is located in your CIMPLICITY HMI directory.
5. Copy the file **`ProwlerClient.jar`** to the third party Web server root directory.
6. Copy the WebPages directory.

Web Browser Interface File Location

The WebView default files are located in the **\CIMPLICITY\HMI\WebPages\CimWeb** folder on a WebView server. .



File types that the default Web browser interface uses include:

.bcl, .exe	CGI programs to generate Web content.
.bmp, .gif	Images
.css, .xsl	Style sheets
.ctx, .htx	Template files used by the CGI programs
.html	Web pages

The Points page in the default Web browser interface is an **.xsl** style sheet that allows the user an interactive way of viewing the point data. Alternatively you may retrieve the raw **.xml** data and apply your own transformations.

The Alarms page in the default Web browser interface is a pre-configured **HTML** page that uses a tabular format. Alternatively, you may retrieve the raw **.xml** data and apply your own transformations.

Note: GE Fanuc offers services to help you customize WebView screens to your system's needs. Contact your salesman for details.

WebView Core Files and Stand-alone Screen Location

WebView stand-alone screen files include..

`HTML` files.

`HTML` can be added to the WebView directory or a WebView subdirectory. These files can be used to view specified WebView screens or can replace the WebView default home page.

CimView screens for WebView Standard use.

You can use any of several locations for CimView screens that will be involved with a WebView site.

CimView screens can be in a:

- Local project
- Remote project

If the CimView screens are in a remote project, you can:

- Use network access through a:
  - ➔ Mapped drive
  - ➔ UNC names e.g. **`\\computer\share\`**
- Copy a file to a local directory

Locating WebView Web Page Files

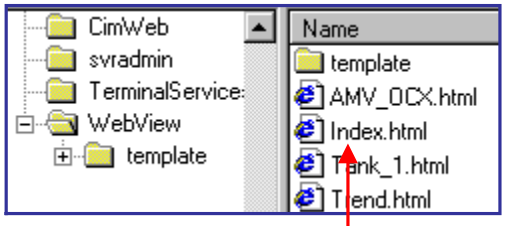
Note: By default, the Web server Browser interface points to the CimWeb directory to find the **`index.html`** file.

You can add an **`HTML`** file that will be the home page file directly to the WebView root directory or to a WebView subdirectory.

The recommended WebView home page file name is **`index.html`**.

This file can:

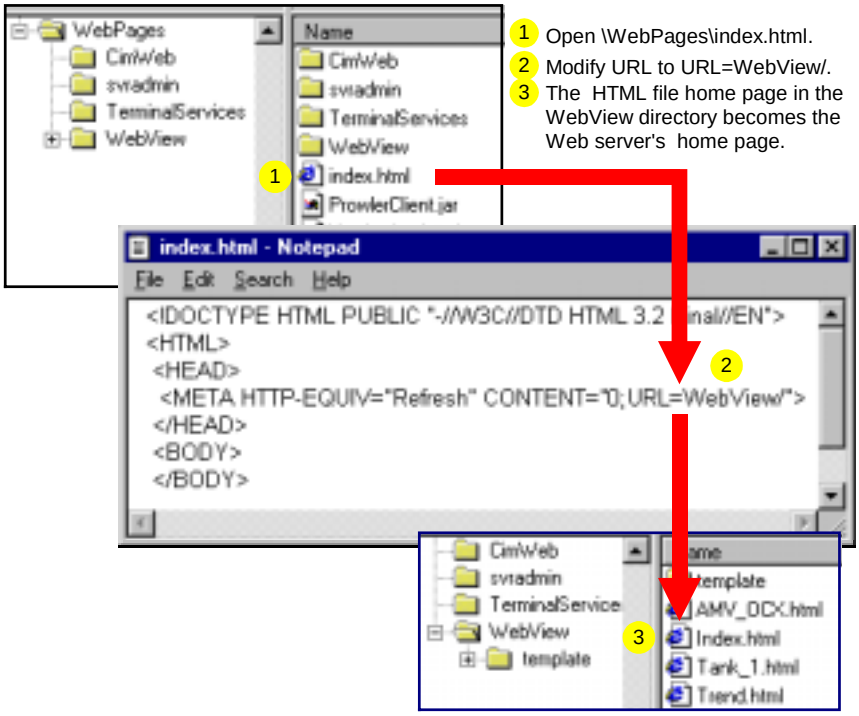
- Act as a WebView Standard home page when a user enters an explicit URL address that includes the WebView directory, e.g. **`http://ServerName/WebView`**, when a user clicks the WebView Standard screens in the WebView interface.



Home page when user enters an extended address to the WebView folder or selects the WebView option in the Web browser interface's left frame.

- Replace the default **`\CimWeb\index.html`** home page when the user enters an explicit URL address to the WebView **`index.html`** file.

In order to specify an **HTML** file in the WebView directory as the Web server home page, you must enter the new path in the **\WebPages\index.html** file.



Where you go from the home page depends on what CimView screens the home page will overlay.

Locating CimView Screens for WebView Stand-alone Use

You can use any of several locations for CimView screens that will be involved with a WebView site that is independent of the CIMPLICITY Plant Edition Web pages.

CimView screens can be in a:

- Local project
- Remote project

If the CimView screens are in a remote project, you can:

- Use network access through a:
  - ➔ Mapped drive
  - ➔ UNC names e.g. **\\computer\share**
- Copy a file to a local directory

A major benefit of WebView is that you can use the CimView screens that you have carefully configured for a CIMPLICITY HMI project for your WebView project. Most likely, you have created a main screen that opens or overlays other screens to which the user has access. You probably have already created access levels. If the CimView screens reside on different computers, you probably have already mapped drives to those screens.

The file that serves as the home page file must be in the WebPages directory or a subdirectory to WebPages.

The WebView options available for the CimView screen locations are similar to the CimView options.

CimView screens that a remote user can overlay through a WebView site can:

Option 1. Reside in a CIMPLICITY HMI project that is located on the Web server.

Option 2. Reside in a CIMPLICITY HMI project that resides on a computer other than the Web server.

Option 3. Be copied to a separate folder on the Web server.

If you choose this option, you will need to specify the CIMPLICITY HMI project location.

Option 1. CimView Screens in a Project on the Web Server

WebView will easily find the CimView screens that are in a CIMPLICITY HMI project on the Web server.

Option 2. CimView Screens in a Project on a Remote Server

If the CimView screens are in a CIMPLICITY HMI project that is located on a remote computer, you need to do one of the following:

- Map a drive on the Web server to the remote computer

  WebView will find the screens through the mapped drive

- Use UNC names, e.g. **`\\computer\share\`**

Option 3. CimView Screens in a Separate Folder on the Web Server

You can copy the CimView screens from other computers to the Web server and place them in a separate folder. If you do this, you will have to instruct WebView where to look for the CIMPLICITY HMI project that they represent.

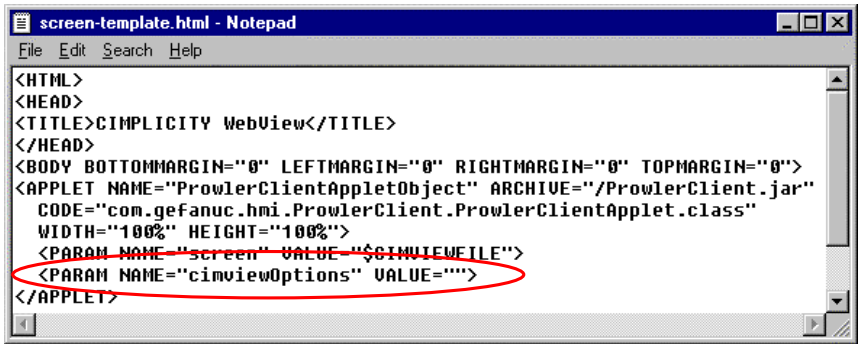
See the "Command Line Arguments" section of the "Managing CimEdit Screens" chapter in the CIMPLICITY HMI CimEdit Operation Manual, GFK-1396.

To do this, you can use the command line options that are available for CimView. However, instead of entering them on the command line, you will enter them in the HTML source code file for the home page that accesses the copied screens.

To specify a project for CimView screens that are copied to a separate folder:

1. Open an HTML or text editor, e.g. Microsoft Notepad or Word.
2. Make sure the file type in the Open dialog box is set to **HTML** or All files.
3. Select the WebPages directory.
4. (Optional) Select the directory under WebPages in which the home page **HTML** file is located.
5. Open the home page **HTML** file.

   A file similar to this example displays.



6. Go to the line that displays:

   PARAM NAME="cimviewOptions" VALUE=""

7. Enter **VALUE="/project *<ProjectName>***"

   Where

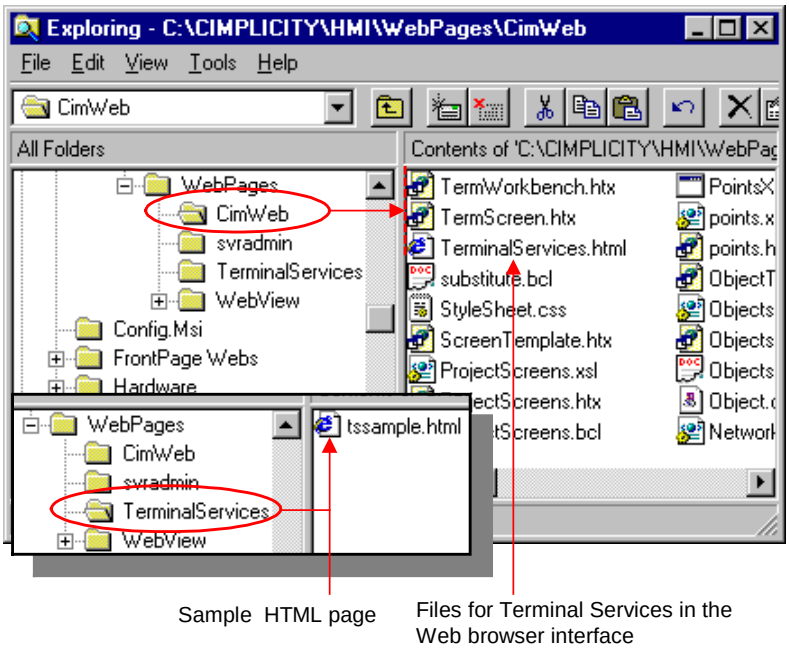
   /project is the command line argument to open a CimView screen

   <ProjectName> is the name of the project associated with the CimView screens

Web Browser Terminal Services Files Location

Files for Terminal Services in the Web browser interface are in the **\Webpages\CimWeb** directory.

A sample HTML file is in the **\Webpages\TerminalServices** directory.



Viewing CimView through Web Browsers

CimView Behavior through WebView

The entirely new communication capability that WebView opens for a remote CIMPLICITY HMI user affects how some CimView features perform.

When you configure CimView screens that remote users will access through WebView, keep the following basics in mind.

1. Because the third party Web browser is the primary interface, some of its features, such as the toolbar, will override features that a Viewer displays.
2. The consequences of the user's actions occur on the Web server, not at the Web browser location. For example, if a file is deleted through WebView, it is deleted on the Web server computer, not on the client computer.
3. Data is transmitted over low bandwidths (telephone lines) or through a network that is possibly being used by numerous other applications.

As a result, the configuration decisions you make will increase the effectiveness of the CimView screens being viewed from a remote location.

More specifically, following are some guidelines for CimView features in relation to WebView.

Guidelines for CimView Features in Relation to WebView

1. CimView actions

   A browser user can perform an ExecuteCommand or scripted action that interacts with the server. A command that, for example deletes a file, can be very useful. However, because the result is on the server, some commands are not useful to the remote user. For example, if you configure an action that opens Microsoft Notepad, Notepad will open on the server. The browser user will not see it.

   In addition:

   - The Print action is not supported.
   - An Alarm Viewer that opens a specified CimView screen, when it is pushed, opens the screen on the server, not through the browser.
   - An Open Screen action behaves like an Overlay Action through a browser. It will replace the displayed screen with the selected screen. It does not open another browser window.

Note: When you create an Overlay Screen or Open Screen action, enter the name of the screen to overlay in the Screen name field. If no file name is specified and a remote user attempts to trigger the action, WebView will display an error message.

2. Browser's built in Window features

   The browser's built in window features, such as the toolbar and menu, display instead of the CimView window features.

3. Browser window resizing

   When a user increases or decreases the size of the browser window how CimView resizes depends on the browser. Under Internet Explorer, CimView resizes to the browser size. If a user decreases the size of Netscape, CimView stays at its original size and is clipped by the Netscape window.

4. Right mouse button behavior

   Right mouse button actions are not recognized through a browser. This means that popup menus do not display and, consequently, a user can not access other features through those menus.

5. ActiveX controls

   ActiveX controls that WebView supports include Trend, Alarm Viewer OCX, SPC, CimGraph and Recipes. However, dialog boxes and menus for these features are not supported.

   Note: You can script some of the features that use dialog boxes and menu items through CimView.

   Third party ActiveX controls are not supported, although some may work. However, separate windows, display dialog boxes and menu displays will not work.

6. Basic Scripting

   Basic scripting dialog boxes will not work.

7. OLE Objects

   A remote user can interact with OLE objects whose primary function is display (e.g. Word or WordArt).

   Other OLE objects, such as sound, will open on the server. Someone who is near the server may hear them. The remote user will not.

8. Server Redundancy

   Because WebView deals with Viewer capability, it is most efficient to put it on a server that points to both the primary and secondary computer in a redundant pair. However, if you decide to make the primary computer also the WebView server, you will have to manually reconnect the slave if the master goes down.

9. Other features to consider

   - The onscreen keypad, which is called through a command line parameter, **`/keypad,`** does not display through WebView.
   - The read-only Properties dialog boxes will not display when a remote user double clicks an object.

Configuring Security for CIMPLICITY Web Access

About WebView Security

When you use any Web-based technology there are security issues that you, a system administrator, need to address. These issues, which transcend WebView, concern both internal computer networks (Intranets) and the Internet. Your company may already have guidelines for security in place to deal with these issues.

Following are options to consider about implementing security features.

- Use the several CIMPLICITY HMI features that enable you to limit user access. Most likely you already have these security features configured. WebView adheres to your configuration.
- Use the Microsoft Internet Information server, which enables you to implement levels of Web security.
- Hire an Internet security expert to implement the complex configuration of Internet firewalls and other security features.
- Remember that the Web server and CimView screens run on the same computer as the Web server.

Summary of CIMPLICITY HMI Security Features

Most likely you have already have configured CIMPLICITY HMI security in order to limit access to the different features and capabilities of the product.

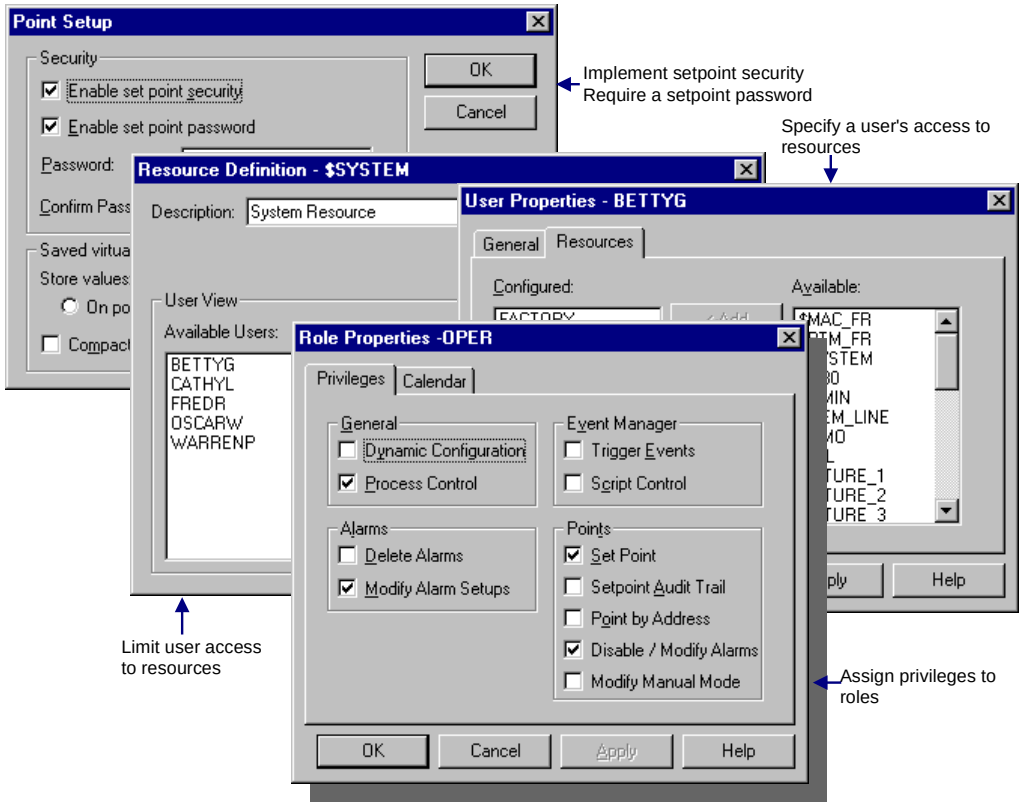
In CIMPLICITY HMI you can:

- Implement set point security
- Require a set point password
- Specify the users who have access to each resource
- Specify which resources a specific user can access
- Specify what privileges are available to each role

  See the following chapters in the "Base System User's Manual" GFK-1180 for details about setting up the different types of CIMPLICITY HMI security.

  - *"Understanding Points"*
  - *"Resource Configuration"*
  - *"User Configuration"*
  - *"Role Configuration"*

CIMPLICITY HMI Security Features



Other Security Features

If your organization maintains an Intranet or Internet site, you, most likely already have security features that adhere to your requirements.

If not, you can use the Microsoft Internet Information server to begin to implement security features that go beyond the CIMPLICITY HMI features. Because Intranet and Internet security can be a complex issue, you may want to hire a security expert to insure that all of your organization's Web activity is secure.

Using Terminal Services

About Microsoft Terminal Services and CIMPLICITY

When you set up a CIMPLICITY Plant Edition server as a Terminal Services server, you can use the CIMPLICITY HMI Plant Edition Web site to make use of the Terminal Services features.

Microsoft provides extensive documentation for Terminal Services, both in the Windows 2000 documentation and at the Microsoft web site. In that documentation, Terminal Services is defined as follows:

> "Terminal Services adds terminal support to Windows 2000 Server. Terminal Services is a multi-session environment that provides remote computers access to Windows-based programs running on the server. Windows 2000 Server includes Terminal Services Client software to support 16 and 32-bit Windows-based clients.
>
> Terminal Services provides remote access to a server desktop through "thin client" software, serving as a terminal emulator. Terminal Services transmits only the user interface of the program to the client. The client then returns keyboard and mouse clicks back to be processed by the server. Each user logs on and sees only their individual session, which is managed transparently by the server operating system and is independent of any other client session.
>
> Client software can run on a number of client hardware devices, including computers and Windows-based Terminals.
>
> Computers can continue to be used as they have been within existing networks while also functioning as thin clients capable of emulating the Windows 2000 Professional desktop"

Microsoft offers three client options:

Client Option	Provides a Direct Connection through a
Full client	Desktop PC
Advanced client	Web browser on a desktop PC
Windows CE Client	Windows CE device.

Tip: Microsoft Windows 2000 help provides detailed information about Terminal Services.

In addition, you will find the most current information at the Microsoft web site.

For example, at **http://www.microsoft.com**, enter Windows 2000 Terminal Services in the Search field. Search result topics may include:

- Upgrading to Windows 2000 Terminal Services
- Exploring Terminal Services
- Windows 2000 Terminal Services Capacity and Scaling
- Terminal Services Online Documentation.

When used with CIMPLICITY, Since several users may be working with a project at the same time, pay careful attention to privileges.

Reviewing Performance Requirements CIMPLICITY and Terminal Services

Following are minimum performance requirements, based on the number of clients that will be using the Terminal Services feature.

Number of Clients	CPU	Physical Memory	Virtual Memory
5	Pentium III 450 MHz	384 MB	960 MB
15	Pentium III 500 MHz	1024 MB	2560 MB
25	Pentium III 700 MHz	2048 MB	5120 MB

Terminal Services Quick Setup Guide

Steps for the CIMPLICITY Terminal Services setup include:

Step 1. Obtain the appropriate Terminal Services licenses.

Step 2. Set up the Terminal Services Server.

Step 3. Configure CIMPLICITY on the Terminal Services server.

Step 4. Install Terminal Services client software on client computers.

Step 5A. Work with a Full Terminal Services client.

Step 5B. Work with an Advanced Terminal Services client.

Step 5C. Work with Windows CE Terminal Services client.

Note: Terminal Services has a 256-color limit.

Step 1. Obtain the Appropriate Licenses

There are two separate license requirements for running Terminal Services and CIMPLICITY projects with Terminal Services.

License 1 Obtain Microsoft Terminal Services licenses.

License 2 Obtain GE Fanuc CIMPLICITY Terminal Services licenses

License 1.

Obtain Microsoft Corporation Licenses for Terminal Services

Microsoft Corporation provides licenses to run Terminal Services on a Terminal Services Server and a specified number of clients.

Microsoft documentation states that:

> "Terminal Services has its own method for licensing clients that log on to Terminal servers, separate from the licensing method for Windows 2000 Server clients. Clients must receive a valid license issued by a license server before they are allowed to log on to a Terminal server in application server mode. When using Terminal Services in remote administration mode, two concurrent connections are automatically allowed to log on, and a license server is not required.
>
> Using Terminal Services in application server mode requires a license server, and the license server must be activated through Microsoft. Once activated, the license server provides a secure way to install client licenses and issue them to Terminal Services clients. When a client attempts to log on to a Terminal server for the first time, the server contacts the license server and requests a license for the client. Before licenses can be issued to clients, you must first install a license server on your network, activate the license server through the Microsoft Clearinghouse, and install client license key packs on the license server."

Review Microsoft documentation for details about Terminal Services licenses.

License 2.

Obtain CIMPLICITY Projects through Terminal Services Licenses

GE Fanuc provides licenses that enable Terminal Services clients to work with CIMPLICITY projects. The CIMPLICITY Terminal Services software resides on the Terminal Server.

You can purchase CIMPLICITY Terminal Services licenses in the following categories:

- Single
- 5-pack (5-sessions)
- 10-pack (10-sessions)
- 25-pack (25-sessions)
- 50-pack (50-sessions)

Note: GE Fanuc offers a maximum of 50 licenses for each Terminal Services server.

A session is counted as using a license if it

- Has any connection to projects.
- Is attempting connections to projects or
- Is running the Workbench.

  Note: A client session can: run multiple copies of the Workbench, connect to multiple projects and use only one license.

When a client attempts to access a CIMPLICITY project, CIMPLICITY checks to see if there is an available client license.

If a license is available, the client can connect to the project. If a license is not available, an out-of-licenses message displays.

Note: If the computer is site licensed (or on the 4-day license), the maximum number of CIMPLICITY Terminal Services licenses will be assumed. If a computer is unlicensed (or on the 2-hour license), no licenses will be allowed.

Step 2. Set up the Terminal Services Server

Setting up the Terminal Services server includes:

Task 1. Install Terminal Services with Windows 2000.

Task 2. Configure security levels in Windows 2000.

Step 2. Set up the Terminal Services Server

Task 1. Install Terminal Services with Windows 2000

You can install the Terminal Services server when you install Windows 2000. A TCP/IP connection is automatically configured when Terminal Services is enabled on the Windows 2000 Server. The TCP/IP connection provides the link clients use to log on to a session on the server.

Note: Use the Terminal Services Configuration to change the default properties of the connection or add new connections.

Step 2. Set up the Terminal Services Server

Task 2. Configure Security Levels in Windows 2000

An important consideration in Windows 2000, as well as CIMPLICITY, is how to organize privilege levels. It will take some planning to make sure that Terminal Services clients have the appropriate levels of control in the Terminal Services server.

Consult your Microsoft documentation for details about configuring security in Windows 2000.

If you use a firewall, see the appendix "Using a Firewall"

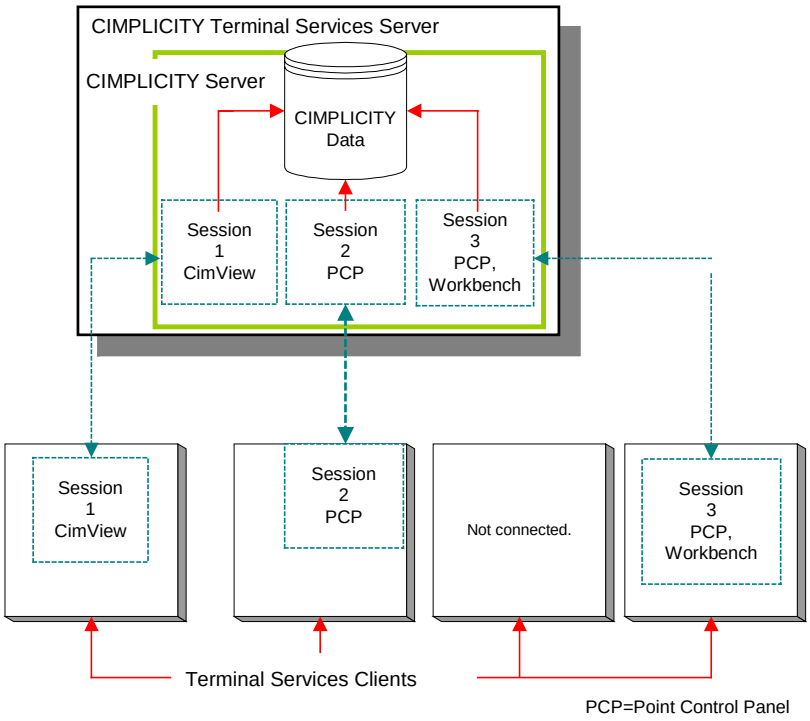
Step 3. Configure CIMPLICITY on the Terminal Services Server

You can install CIMPLICITY before or after clients are installed. It is recommended that you insert the appropriate security features before you install client software.

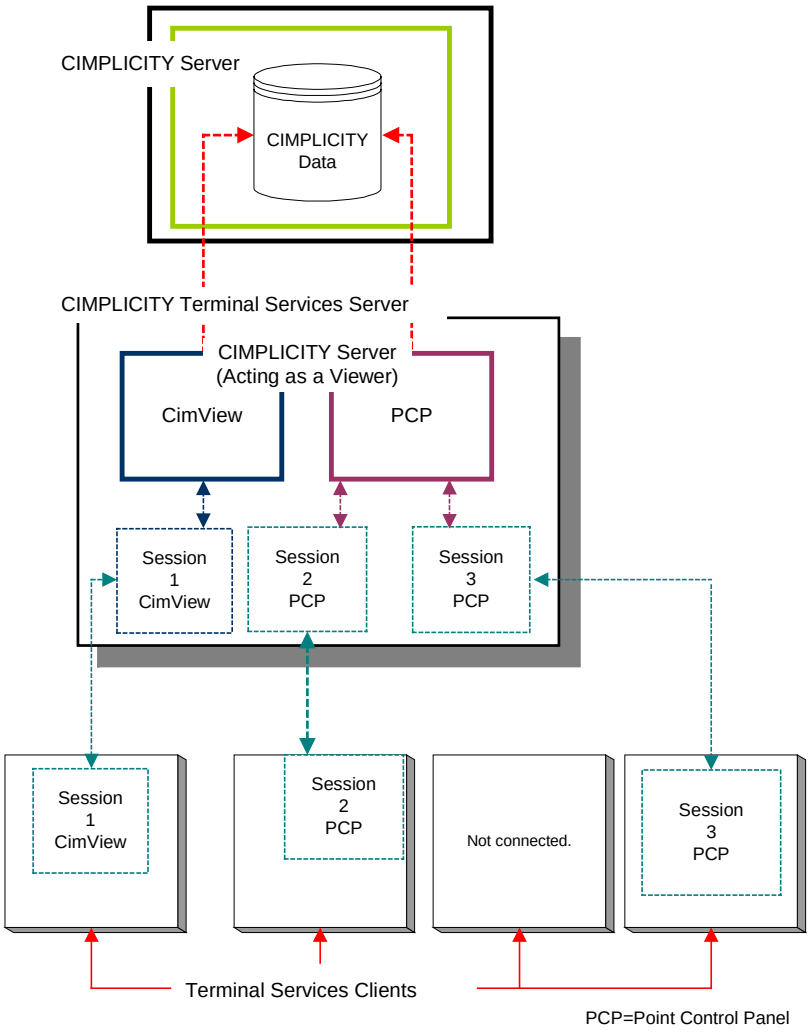
Microsoft Terminal Services enables clients to work with all supported CIMPLICITY features for which a user has privileges as follows.

The Terminal Services server must be installed on a CIMPLICITY server.

- Terminal Services clients directly access the CIMPLICITY Terminal Services server.



- Terminal Services clients interact directly with the CIMPLICITY Terminal Services server. The client displays runtime data from the CIMPLICITY server and sends setpoint data to the CIMPLICITY server database.



See the CIMPLICITY Getting Started Guide, GFK-1500, for details about installing CIMPLICITY software.

Step 4. Install Client Software on Client Computers

Microsoft provides extensive documentation for installing Terminal Services client software on a desktop PC and CE device. (*Only an Internet browser is required for the Advanced Client*.)

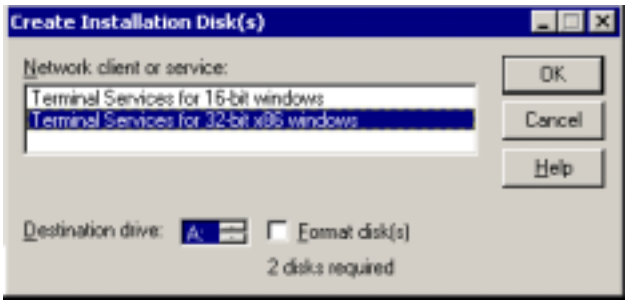
Terminal Services Client	Access CIMPLICITY:
Full	Through a desktop PC. A Microsoft Terminal Services client application must be installed on the client PC.
Advanced	Through a Web browser. A Web browser is the only required application on the client PC. An HTML web page is required on the Terminal Services server to hold the ActiveX control. **To obtain the ActiveX control from Microsoft:** 1. Go to **`http://www.microsoft.com/windows2000/downloads/recommended/tsac.`** 2. Download the Web package 3. Install the Web package. 4. Copy **`\Inetpub\wwwroot\TSWeb\mstscax.cab`** to **`\CIMPLICITY\HMI\WebPages\CimWeb\`** **Tip:** CIMPLICITY provides a sample **`HTML`** file called **`TSSample.html`** in the **`WebPages\TerminalServices`** directory.
Windows CE	Through a Windows CE device. A Microsoft Terminal Services client application must be installed on the Windows CE device for full access.

The following is a summary of the procedure to install the Terminal Services client on a desktop PC.

Step 4. Install a Terminal Services client on a desktop PC:

1. Make sure that the client computer is properly configured and connected to the network. *See Microsoft documentation for details.*
2. Create a client installation floppy disk or place shared installation files on a drive.
   A. Click **Start** on the Terminal Services server task bar.
   B. Select Programs.
   C. Select Administrative Tools.
   D. Select Terminal Services Client Creator.

      The Create Installation (Disk(s) dialog box opens.



   E. Follow the instructions from Microsoft documentation.
3. Install Terminal Services on the client computer.

   Instructions provided by Microsoft Windows 2000 documentation are as follows:

   "A. At a command prompt, type *drive*:setup (where drive is the letter of the drive containing the Terminal Services Client disk or path to shared installation files), and press ENTER.

      The Welcome to the Terminal Services Client installation program dialog box appears.

   B. Read the information, and then click **Continue**.
   C. In **Name**, type your full name. In **Organization**, type the name of your organization.
   D. In the **Terminal Services Client Setup** dialog box, note the product ID number, and then click **OK**.
   E. In the **License Agreement** dialog box, read the agreement and, if you accept the license agreement, click **I Agree**.
   F. In the **Terminal Services Client Setup** dialog box, begin installation, and then click the large button.
   G. To install client software for all users, click **Yes**. To install the client only for the current user, click **No**.
   H. In the **Terminal Services Client Setup** dialog box, click **OK** to complete the installation."

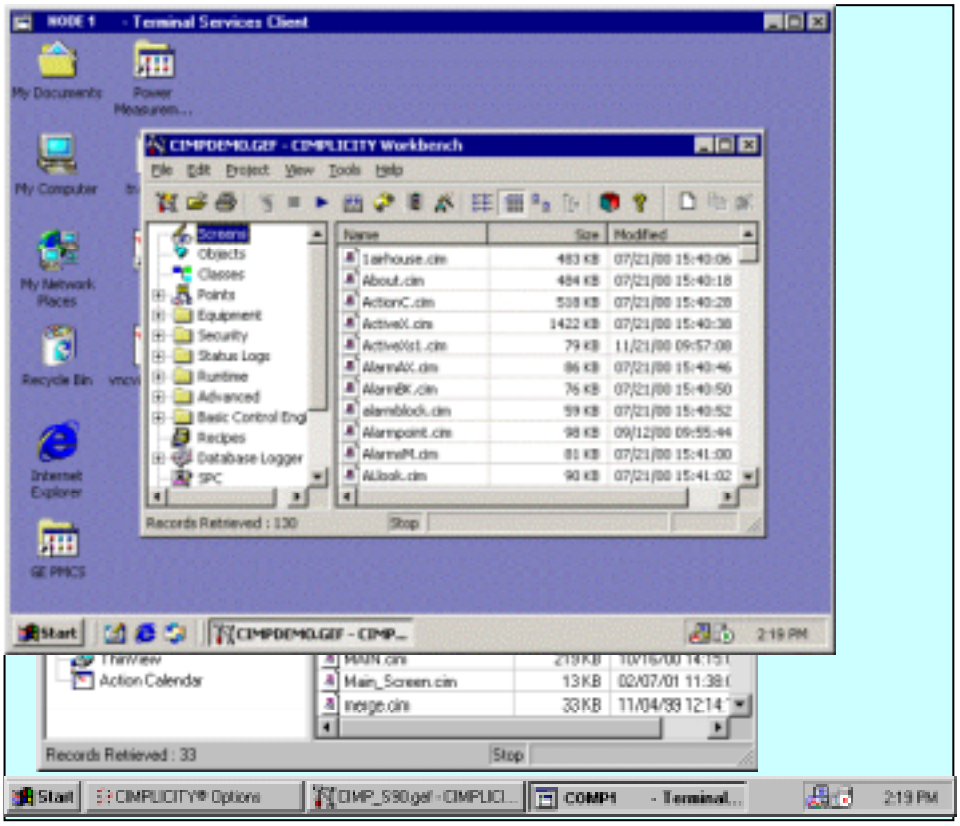
Note: Review Microsoft documentation for the Windows CE client installation.

Step 5A. Work with a Full Client

If you installed the full Terminal Services client on the client side, you can open the Terminal Services desktop on the client computer, open and work with CIMPLICITY projects as if you were sitting at the Terminal Services computer.

Task 1. Open the Terminal Services client on the client desktop.

Task 2. Work with CIMPLICITY projects.



Step 5A. Work with a Full Client

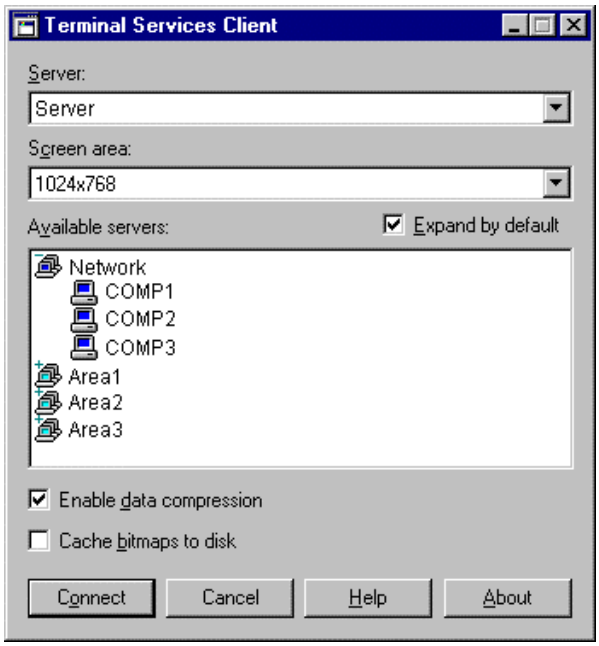
Task 1. Open a Terminal Services Session on a Client Desktop

When a local network computer has Terminal Services full client installed a user can easily open a session through the Windows Start menu.

Task 1. Open a Full client Terminal Services session:

1. Click **Start** on the Windows task bar.
2. Select Programs>Terminal Services Client>Terminal Services Client.

   The Terminal Services Client dialog box opens.



3. Select the Terminal Services server.
4. Click **Connect**.

Result: A session of Terminal Services appears in a window on the client desktop.

Review Microsoft documentation for further information about opening a Full Client Terminal Services session.

Step 5A. Work with a Full Client

Task 2. Work with CIMPLICITY Projects through Terminal Services

A user can control any feature on the Terminal Services server for which he or she has authorization.

Users can work with CIMPLICITY the same way they would if they were sitting at the Terminal Services server.

Guidelines for working with the full client Terminal Services include:

1. Each CIMPLICITY Terminal Services client session can be different from other sessions that may be open at the same time. Differences can include the CIMPLICITY applications a client works with and displays on client screens.

   Example

   If two clients display the Workbench on each desktop and one user closes the Workbench, the second client desktop continues to display the Workbench.

2. Any changes made to CIMPLICITY during all client sessions go directly into the CIMPLICITY database.
3. All projects run in the global session on a CIMPLICITY Terminal Services server-CIMPLICITY server. Therefore, if several people are working on a project and one person stops it, the project stops for all of them.

   Two effects are:

   A. If a client user with configuration privileges is involved in configuration, e.g. creating a new point, the dynamic configuration is no longer running. The user will have to do a configuration update in order to implement the changes.

   B. Runtime applications for the project that shuts down will either:

      - No longer display data if more than one project is running (so the router is still running) or
      - Shut down if there was only one project running (and the router has stopped).

4. When the router stops on a CIMPLICITY Terminal Services server-CIMPLICITY client, runtime applications stop on the Terminal Services server and for all CIMPLICITY Terminal Services clients.

Step 5B. Work with an Advanced Client

The difference between the Terminal Services advanced client and full client is that the advanced client works through a Web page. The Advanced client does not actually use the Web Browser. It forms a direct connection to the Terminal Services server through an ActiveX control.

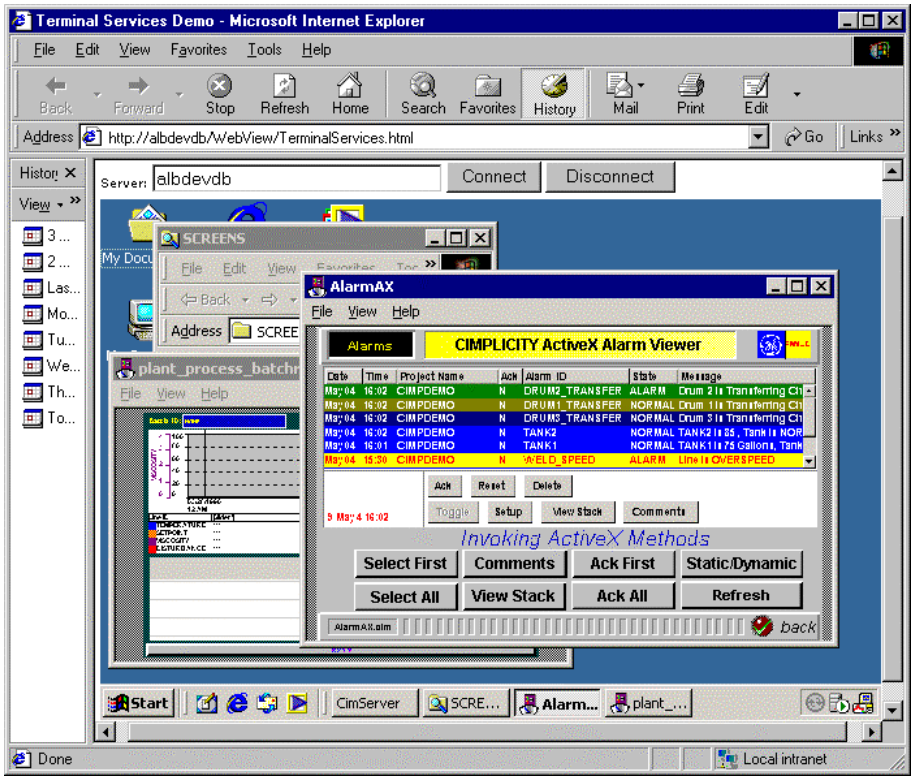
Microsoft supplies the Terminal Services ActiveX control.

Tasks to work with the advanced client include:

Task 1. (*Server side*) Create a Terminal Services Web page.

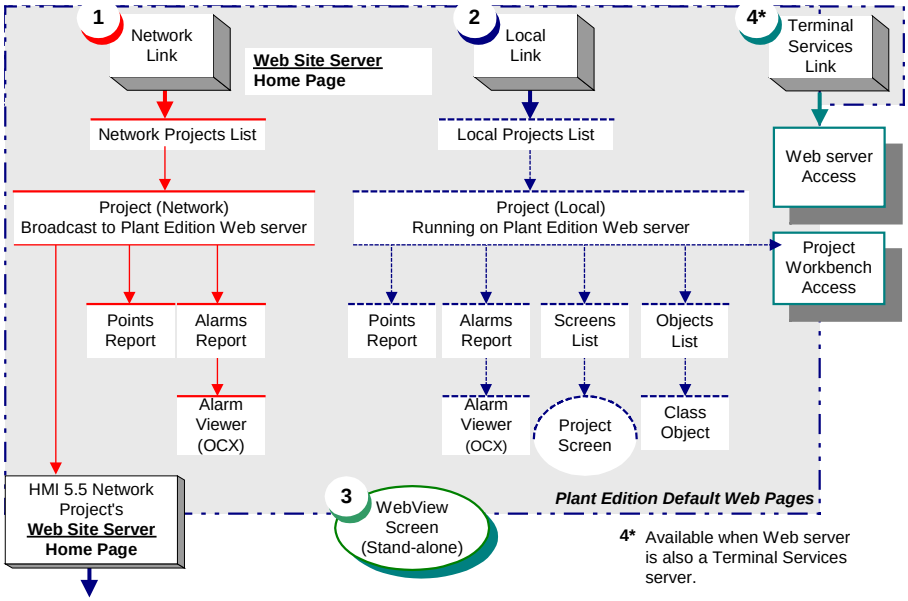
Task 2. (*Client side*) Start CIMPLICITY Terminal Services on the advanced client PC.

Task 3. (*Client side*) Work with Terminal Services Advanced client.



The default Web site that comes with CIMPLICITY HMI Plant Edition version 5.5 provides Web page access to the Terminal Services. Access can be to a project's Workbench only or to the applications on a Terminal Services server for which the user has authorization.

Default Map of Your CIMPLICITY HMI Plant Edition Web Access



Step 5B. Work with an Advanced Client Installation

Task 1. (Server Side) Create a Terminal Services Web Page

Microsoft provides examples of a Web page that will accommodate the Terminal Services control.

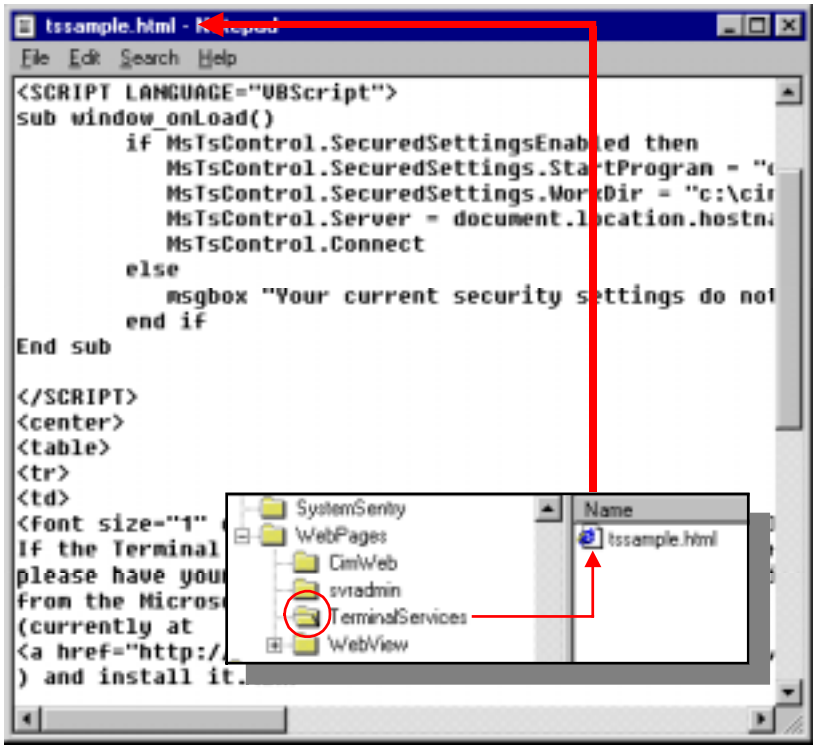
CIMPLICITY provides a sample Web page to facilitate access to CIMPLICITY.

Task 1. Use the CIMPLICITY sample Web page to create a Terminal Services Web page:

1. Open the editor that you use to edit HTML files.
2. Use the following path to open the **`tssample.html`** file.

   `cimplicity\hmi\WebPages\TerminalServices`
3. Make required modifications.

tssample.html File Location



Step 5B. Work with an Advanced Client Installation

Task 2. Start a CIMPLICITY Terminal Services Session

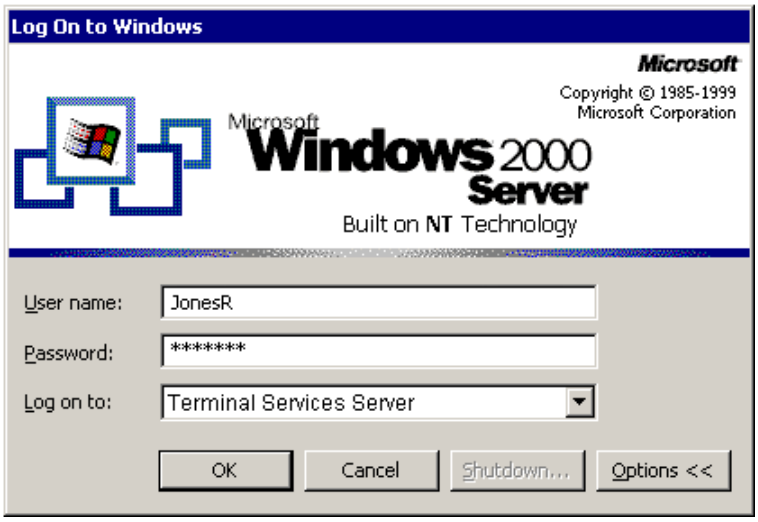
Note: This procedure may vary depending on how the Terminal Services server is configured.

This procedure is based on the default web page that CIMPLICITY provides.

Task 2. Start CIMPLICITY Terminal Services on the Advanced client PC:

1. Open your Internet browser.
2. Go to the Web page that was created for your Terminal Services capability.
3. Enter the server name in the Server field.
4. Click **Connect**.

   A Microsoft Windows 2000 Log On to Windows dialog box always appears before you can connect to the Terminal Services server.



4. Fill in the fields with the required information.
5. Click **OK**.

Result: You are connected to the Terminal Services server through the browser. You can do whatever tasks in CIMPLICITY for which you have been assigned privileges.

Step 5B. Work with an Advanced Client Installation

Task 3. Work with CIMPLICITY Projects through Terminal Services

Once connected, users work with CIMPLICITY Terminal Services offers the same capabilities to the advanced client that it offers to the full client.

CIMPLICITY through Terminal Services

Step 5C. Work with Windows CE Client

CIMPLICITY performance on a Windows CE device is similar to its performance on a desktop PC with the Terminal Services full client installed. Differences between the two result from the different shapes and capabilities between the two hardware types and two Microsoft Terminal Services client software products.

Consult Microsoft documentation for details about Terminal Services and your Windows CE device.

CIMPLICITY Projects through Terminal Services

Global Parameters List

The following global parameters are available for use with CIMPLICITY through Terminal Services:

Global Parameter	Use to:
`GSM_TERMSERV_CACHE_SIZE`	Limit the CimView cache when running on a terminal server.
`TERMSERV_ALLOW_SETPOINTS`	Allow or prohibit setting points from a Terminal Services client.

See the "Using Global Parameters" chapter in the CIMPLICITY HMI User's Manual for details.

CIMPLICITY Features that Work with Terminal Services

The following CIMPLICITY features work with Terminal Services.

- CIMPLICITY features.
- Device communications.

List: CIMPLICITY Features Supported with Terminal Services

Action Calendar	Yes
Alarm Management API	Yes
Alarm Sound Manager	No
Alarm Viewer	Yes
BCE (Basic Program Editor, Event Manger)	Yes
BCEUI	Yes
Bookreader	Yes
CimEdit/CimView	Yes.
CIMPLICITY Options	Yes
CWServ	Yes
Database Server (MSDE)	Yes
Demo Project	No.
Machine Edition integration	No.
Historical Data Analyzer	Yes
Login Panel	Yes
Marquee Driver	Yes
OPC Server (CIMPLICITY, not devcoms)	Yes
Pager (Pager, Pager Standalone, Pager Enterprise Client, Pager Enterprise Server, (FirstPAGE Client, FirstPAGE Scheduler, Pager Administrator)	No
Point Control Panel	Yes
Point Cross Reference	Yes
Point Management API	Yes
Process Control	Yes
Recipes	Yes
Recipes	Yes.
Registration/Licensing	Yes
Report Manager	No
Server Redundancy	No*
Show Users	Yes.
SPC Charts	Yes
Status Log	Yes
System Sentry	Yes
ThinView for Windows CE	Yes
Tracker (PRT User Interface, RCO Runtime User Interface)	Yes
WebView	Yes.
Workbench	Yes

*Terminal Services client failover is not supported; remote administration through Terminal Services is supported.

CIMPLICITY Device Communications that Work with Terminal Services

The following device communications are supported with Terminal Services.

Device Communications	Data Collection	Remote Configuration
Allen Bradley Communications (RSLINX)	Y	Y
AB Data Highway Plus	NA	NA
Allen-Bradley DF-1	Y	Y
Allen-Bradley RF-ID	NA	NA
APPLICOM	NA	NA
CCM2	Y	Y
DC Toolkit	Y	Y
DDE/DDE Client	Y	Y
FloPro/FloNet Ethernet	N	N
Genius	N	N
Honeywell IPC 620	Y	Y
Johnson Controls N2 But	Y	Y
Mitsubishi Serial	N	N
Mitsubishi TCP/IP	Y	Y
MODBUS Plus	Y	Y
MODBUS RTU	Y	Y
MODBUS RTU Slave	Y	Y
MODBUS TCP/IP	Y	Y
MODBUS TCP/IP Slave	Y	Y
N2 Serial	Y	Y
Omron Host Link	Y	Y
OMRON TCP/IP	Y	Y
OPC Client	Y	Y
SCADA Driver Client	Y	N
Series 90 Ethernet	Y	Y
Series 90 Ethernet (Redundant)	Y	Y
SERIPLEX	NA	NA
Sharp TCP/IP	Y	Y
Siemens TI Serial	Y	Y
SMARTEYE Electronic Assembly	Y	Y
SNP	Y	Y
SNPX	Y	Y
SQUARE D	Y	Y
TOYOPUC TCP/IP	NA	NA
Triplex	Y	Y

NA = Not tested.

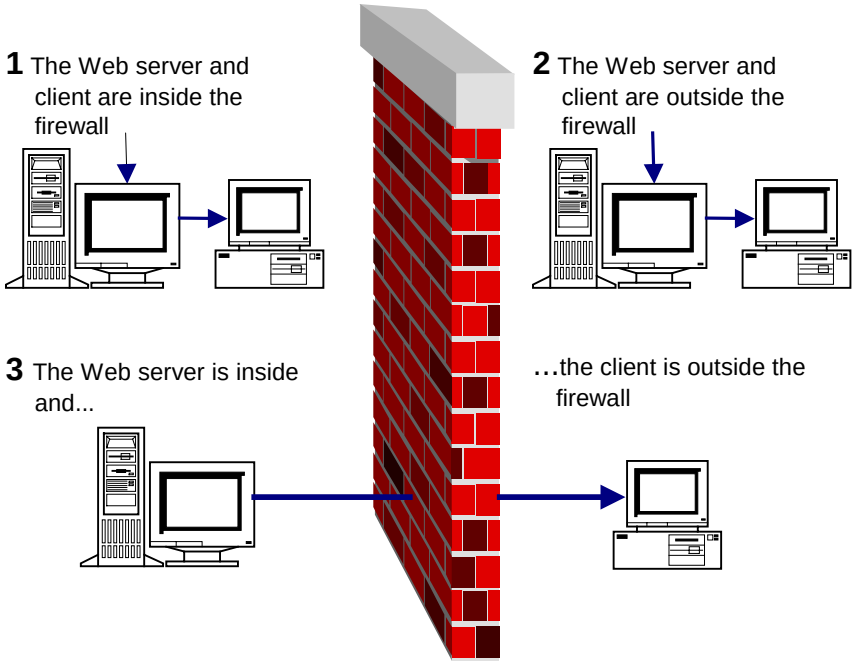
Appendix A - Using a Firewall

Web Server and Client Locations Relative to a Firewall

A Web server and client can communicate when your company has an Internet firewall. You can set up a configuration so that:

- Both the Web and/or Terminal Services server and client are inside the firewall (An internal network would have this configuration.)
- Both the Web and/or Terminal Services server and client are outside the firewall
- The Web and/or Terminal Services server are inside the firewall and the client is outside the firewall.

WebView and Firewalls: Three Supported Configurations


1 The Web server and client are inside the firewall
2 The Web server and client are outside the firewall
3 The Web server is inside and...
…the client is outside the firewall

For WebView

In cases where the Web server is behind a firewall, the firewall must be configured to allow incoming TCP connections to the WebView server's IP address for TCP ports 80 and 10212.

For Terminal Services

If you use Terminal Services through a firewall, configure the firewall to allow the terminal Services RDP connections between the client and server on port 3389.

Consult the Microsoft web site for developers, http://msdn.microsoft.com (or http://www.msdn.microsoft.com) and search for terminal services firewall or terminal server firewall.

Appendix B - Using WebView Log Files

About WebView Log Files

The WebView server keeps detailed logs of user connections that you can use for security purposes and for determining server load information.

Finding WebView Log Files

The log files are:

- Created in the `log` subdirectory of your CIMPLICITY HMI installation directory.
- Named **`WebPocket_Connections_N.csv`** where **`N`** is an integer from 1 to 7.

By default a log file is 1MB and the last 7 log files are kept. The newest log file has the highest number. When the current log file is full, WebView opens a new log file. If there are already 7 log files, the earliest (number 1) is deleted and the other files are renamed so that the newest log file is number 7.

Reviewing WebView Log Files

A WebView log file has a CSV format with headers that describe each field. The fields are:

Field	Describes the
Time	Date and time record was logged. (Note: when viewing the CSV file in Microsoft Excel, Excel will display the time without the seconds. You can change the cell formatting in Excel to display the seconds as well.)
Type	Type of event record as described below
Client Type	Type of session where: W= WebView T= ThinView D=Disconnected
User IP Address	IP address the client reported

User Host	Host name the client reported
Socket IP Address	IP address of the accepted socket
Socket Host	Reverse resolved host name of the accepted socket
Session ID	ID of the session
Screen	Initial screen requested

Three types of events are logged:

Event	Is logged when
Accept	The WebView server accepts a connection request from a client. The only valid fields in this record are Time, Socket IP Address, and Socket Host.
Start	CimView is started for a session. All the fields are valid in this record.
Reconnect	There is a reconnection to an existing session.

Tip: In general, you will see an Accept followed by a Start record for each client connection. In some cases, you will see only an Accept record. This typically indicates that there were too many users connected and the client was refused a session. If this happens frequently you may want to increase the number of users allowed.

Appendix C - Doing Advanced WebView Configuration

About Advanced Configuration for WebView

For special circumstances, you may want to customize the WebView client applet or Windows registry settings. This chapter provides both supported and unsupported options. It is recommended that you only do the configuration if you are an expert in configuring Java applets or editing Windows Registry settings. If you are not, it will be safer to consult someone who is.

Supported Java Applet Parameters

The Web page that is generated by WebView is sufficient in most cases. However, there are certain parameters you can set to customize the behavior of the client applet. You can add these parameters to individual Web pages or to the template file. The format for modifying parameters is:

`<param name="name" value="value">`

where

`name` is the name of the parameter and

`value` is the value you want it to have.

The applet parameters are:

Applet Parameter	See Page
`BitDepth`	*C-2*
`CimViewOptions`	*C-3*
`Compression`	*C-3*
`heartbeatInterval`	*C-3*
`screen`	*C-3*
`waitInterval`	*C-3*
`waitUpdateInterval`	*C-3*

bitDepth

`bitDepth` controls the number of colors that ThinView will use to display CIMPLICITY screens.

Permissible values are:

Value	Sets
8	256 colors, the default
16	65536 colors
24	True color

The actual bit depth used will be the smallest of the

- Server computer's bit depth,
- Client computer's bit depth, and
- The bitDepth parameter.

Tip: Set **`bitDepth`** to:

- 16 or 24 to display full color ThinView screens.
- 8 for slower network connections such as dial-up connections.

cimViewOptions

`cimViewOptions` are additional command line options to be passed to CimView.

Supported options include:

`/project`
`/offline`
`/loadScript`
`/loadCache`
`/TouchDyn`
`/TouchStat`
`/TouchActive`

compression

The server and applet can use several types of compression. Although you can change the compression type used, it is not recommended.

Permissible values for **`compression`** (in order of least to most compression) are:

- **`None`**
- **`rle8`**
- **`zip`**
- **`zipSize`**
- **`zipSpeed`**

The default value is **`zip`**.

heartbeatInterval

CimView sends the client applet a heartbeat message periodically. If the client misses three heartbeats in a row, it puts up the message that the connection to the server is not active.

Increasing this number of messages will prevent network delays from producing false messages but will also increase the time before the user knows there is a problem communicating with the server.

`heartbeatInterval` is in milliseconds. The default value is 10000.

screen

`screen` is the name of the CimView screen to display.

waitInterval; waitUpdateInterval

`waitInterval` and **`waitUpdateInterval`**

- Correspond to (and will override) the Wait and Then Update the Screen Every fields in the WebView Advanced dialog box.
- Are in milliseconds (unlike the dialog fields that are in seconds). The default is to use the value specified in the dialog.

Unsupported Java Applet Parameters

The following information is included for completeness only. These settings have not been fully tested and are not supported by GE Fanuc Automation.

Then unsupported applet parameters are:

Applet Parameter	See Page
`AltUpdateInterval`	*C-4*
`Port`	*C-4*
`Server`	*C-4*

AltUpdateInterval

WebView has a "delayed update" mode where updates are only sent over periodically instead of continuously. This can be configured in the WebView Advanced dialog. Mouse clicks and key presses take you out of "delayed update" mode, but mouse moves do not. This parameter specified how often updates are sent while the mouse is moving when we are in "delayed update" mode. This parameter is in milliseconds. The default value is 0, which means updates are sent immediately while the mouse is moving.

Port

`port` is the port the WebView server is running on. The default is 10212. If you change this, you must also change the port registry setting on the WebView server.

Server

`server` is the specific name or IP address of the WebView server to connect to. Typically you would not want to set this because the WebView server location is determined from the Web server location. The Java applet security will allow the Java applet only to connect to the Web server.

Windows Registry Settings

The following information is included for completeness only. These settings have not been fully tested and are not supported by GE Fanuc Automation.

Important: It is possible to cause serious damage to your operating system by using RegEdit and RegEdt32. Be careful not to modify anything that is not listed in these instructions.

The following registry settings may appear in the registry key:

HKEY_LOCAL_MACHINE\SOFTWARE\GE Fanuc Automation\CIMPLICITY\HMI\releasenumber\WebView.

Setting	Corresponds to the:
StartWebServer	Use Built-In Web Server field.
Rtr	Start CIMPLICITY field in the WebView Advanced dialog.
AllowListing	Allow Web Server Directory Listing field in the WebView Advanced dialog.
HTTPPort	Web Server (HTTP) Port field in the WebView Advanced dialog.
WebServerRoot	Web Server Root Directory field in the WebView Advanced dialog.
WaitInterval	Wait field in the PocketView Advanced dialog box. This value is in milliseconds (PocketView only).
WaitUpdateInterval	Then Update the Screen Every field in the PocketView Advanced dialog box. This value is in milliseconds (PocketView only).
ReconnectTimeout	Hold disconnected session open for…minutes field in the PocketView Advanced dialog box. This value is in milliseconds.
NoSetpoints	No setpoints checkbox in the WebView Advanced dialog box.
Is the:	
Port	Port the WebView (PocketView) server listens on. The default is 10212. If you change this, you must also change the port parameter in every Web page.
Exedir	Executable directory for CimView. This defaults to your CIMPLICITY installation exe directory.
WebServerName	Name the built-in Web server uses. This defaults to the name of the computer.
MaxLogFileSize	Maximum allowed size for a WebView server log file. When the size exceeds this, a new log file is opened. The value is in bytes. The default is 1048576.
MaxLogFiles	Maximum number of log files to keep. When a new log file is opened, if there are already this many log files, the oldest is deleted and the others are renumbered. The default is 7.
AltUpdateInterval	(Is similar to) altUpdateInterval applet parameter, but applies to every Web page. This value is in milliseconds.

Appendix D - Troubleshooting WebView and Web Servers

About Troubleshooting WebView

There are some details about setting up a product and browser for the Internet that even the most experienced system administrator may forget to do. If that happens to you, a user may run into problems..

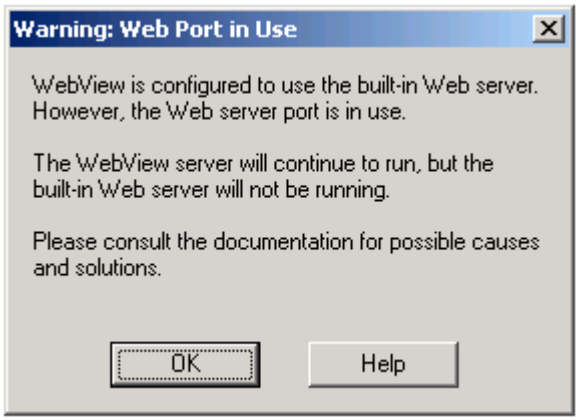
Following are some problems that you may encounter when you set up your system to run on the web. Each problem comes with descriptions of possible causes and solutions.

Problem	The URL cannot be found when a user tries to go to the WebView Intranet address.
Cause	Your browser is using a proxy server.
Solution	Open the Browser Properties dialog box and turn off (bypass) the proxy server for local networks or specifically for the computer that functions as the Web server.
Cause	The DNS naming is not set up properly so the host name is not resolved properly.
Solution	Use the IP address of the server instead of the computer name of the server. If that works, you will know that there is a problem with the name resolution in the network configuration.
Cause	A user uses incorrect syntax to go to the WebView address. For example a user: Uses backslashes (\) instead of front slashes (/), or Types an entire path (**`http://C:\Path\computername`**) instead of simply the computer name (**`http://computername/`**)
Solution	Provide the user with the exact address that should be entered, for example, **`http://computername`**.

Problem	A connection to the server cannot be made when a user tries to go to the WebView Intranet address.
Cause	WebView was not started.
Solution	Open the CIMPLICITY HMI Options dialog box; select the WebView tab; start WebView.
Problem	The user displays an inactive CimView screen through the browser.
Cause	The CIMPLICITY HMI project is not running.
Solution	Start the CIMPLICITY HMI project.
Problem	Seconds are not displayed in the log file.
Cause	In Excel, the Time column's display style is not formatted to display seconds.
Solution	The seconds are in the log file. If you are displaying the log file using Microsoft Excel, change the format for the time column's style to display seconds.
Problem	The following error messages display in the status bar of the browser. They are saying that the Java applet did not get loaded or displayed. load: class com.gefanuc.hmi.ProwlerClientApplet not found (in Internet Explorer). Applet com.gefanuc.hmi.ProwlerClient.ProwlerClientApplet class com.gefanuc.hmi.ProwlerClient.ProwlerClientApplet could not be loaded (in Netscape Navigator)
Cause	The ProwlerClient.jar file is not in the Web server's root directory
Solution	Copy the ProwlerClient.jar file from the WebPages directory in (a subdirectory in the CIMPLICITY HMI directory) to the Web server's root directory.
Cause	You double clicked on an HTML file in the WebPages directory.
Solution	Access the Web page through the Web server (**`http://server/`**).
Problem	The error message "Failed to connect to *computer:*10212." appears in the Java applet window.
Cause	The Web server is not running on the same computer as the WebView server
Solution	Configure the Web server to run on the same computer as the WebView server
Cause	The WebView server is not running.
Solution	Display the WebView tab in the CIMPLICITY Options dialog box and start the WebView server.
Problem	A user has difficulty trying to print CimView screens through the browser.
Solution	A user can Alt+PrintScreen to copy the bitmap of the window to the clipboard and then print it using some other application such as Paint, Microsoft Word, Microsoft Photo Editor, etc.

Problem

Most Web servers listen on port 80 for requests from browsers. Only one server at a time may listen on that port. If you try to use the CIMPLICITY Plant Edition built-in Web server and you have another Web server running, you may get a warning in the CIMPLICITY Options dialog.


Warning: Web Port in Use
WebView is configured to use the built-in Web server. However, the Web server port is in use.
The WebView server will continue to run, but the built-in Web server will not be running.
Please consult the documentation for possible causes and solutions.
OK
Help

You may encounter this message if you have both CIMPLICITY Plant Edition and CIMPLICITY Machine Edition installed.

Solution

There are four basic ways to resolve this conflict.

1. Use the built-in Web server and disable the other server. Consult the documentation for the other Web server for information on disabling it. You can disable the Machine Edition Web server by double clicking on the file CIMPLICITY\HMI\extras\TrapiWebServerDisable.reg. by placing the following entry in the registry (it is a string value):

   REGEDIT4

   [HKEY_LOCAL_MACHINE\SOFTWARE\GEFanuc\Trapi]
   "WebServerEnabled"="False"

2. Use the other server and configure WebView not to use its built-in Web server.

   See the Web Server File Location section in the "Locating Files for CIMPLICITY Plant Edition web Access chapter" in this manual for more information.

3. Use both Web servers but configure the built-in Web server to use an alternate port, such as 8000. This is configured in the Advanced dialog box. If you change the port, users will need to add the port to their URLs (e.g. http://computer 8000/).

   Fully qualified links in Web pages will need to be modified as well, but links that don't specify the computer name will not need to be changed (for example, http:/WebView/overview.html)

4. Use both Web servers but configure the other server to use an alternate port. Consult the documentation for the other Web server for information on disabling it.

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